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SUMMARY REPORT FOR AFSCS TRAINED AT LOWRY AFB. (U)  
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12 OCCUPATIONAL SURVEY REPORT.  
ELECTRONIC PRINCIPLES.

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6 SUMMARY REPORT FOR  
AFSCs TRAINED AT LOWRY AFB.

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OCCUPATIONAL SURVEY BRANCH  
USAF OCCUPATIONAL MEASUREMENT CENTER  
LACKLAND AFB TEXAS 78236

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## PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of airmen in Air Force Specialties for which training is provided at Lowry AFB.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey report was prepared by Capt Charles D. Gorman. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Cristal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

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Commander  
USAF Occupational Measurement Center

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ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT  
SUMMARY FOR AFSCs TRAINED AT LOWRY AFB

INTRODUCTION

This report summarizes the results of the administration of the Electronic Principles Inventory (EPI) to airmen assigned to Air Force Specialties for which training is provided at Lowry AFB. The data for this report were collected during the period January 1970 through September 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by airmen in specialties trained at Lowry AFB. This report is intended as a summary of EPI data. More complete information on any given AFSC can be obtained by examining the Electronic Principles Occupational Survey Report for that AFSC. Such reports are available upon request from the USAF Occupational Measurement Center, Lackland AFB, Texas 78236.

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas and the item numbers contained therein.

A more detailed history of the development and validation of the Electronic Principles Inventory is contained in OM Technical Note 77-02, The Development and Application of the Electronic Principles Job Inventory, October 1977. Copies of this Technical Note are available upon request to the Branch Chief, OMY, USAF Occupational Measurement Center, Lackland AFB, Texas 78236.

## ADMINISTRATION

The Electronic Principles Inventory was administered either by mail or in person to airmen in 16 specialties for which training is provided at Lowry AFB. Those specialties are listed in Table 2. More detailed information concerning the survey sample for any given specialty can be obtained from the previously mentioned report for that specialty.

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TABLE 1  
EPI SUBJECT AREAS

<u>SUBJECT AREA TITLE</u>	<u>BEGINNING ITEM NUMBER</u>
MATHEMATICS	A1
DIRECT CURRENT AND VOLTAGE	A15
RESISTANCE	A24
MULTIMETER USES	B52
ALTERNATING CURRENT	B61
INDUCTORS AND INDUCTIVE REACTANCE	B67
CAPACITORS AND CAPACITIVE REACTANCE	C92
TRANSFORMERS	C128
MAGNETISM	C171
RCL CIRCUITS	D185
SERIES AND PARALLEL	D229
RESONANCE (TIME CONSTANTS)	
FILTERS	D239
COUPLING	E261
SOLDERING	E273
RELAYS	E295
MICROPHONES	F314
SPEAKERS	F327
OSCILLOSCOPES	F342
SEMICONDUCTOR DIODES	G354
TRANSISTORS	G404
TRANSISTOR AMPLIFIERS	G428
SOLID-STATE SPECIAL PURPOSE DEVICES	H477
POWER SUPPLIES	H483
OSCILLATORS	H512
MULTIVIBRATORS	I539
LIMITERS AND CLAMPERS	I555
ELECTRON TUBES	I565
ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609
SPECIAL PURPOSE ELECTRON TUBES	J616
HETERODYNING, MODULATION, AND DEMODULATION	J632
AM SYSTEMS	K638
FM SYSTEMS	K666

TABLE 1 (CONTINUED)

## EPI SUBJECT AREAS

<u>SUBJECT AREA TITLE</u>	<u>BEGINNING ITEM NUMBER</u>
NUMBERING SYSTEMS	K685
LOGIC FUNCTIONS	L695
BOOLEAN EQUATIONS	L708
COUNTERS	L733
TIMING CIRCUITS	M757
USE OF SIGNAL GENERATORS	M769
MOTORS AND GENERATORS	M779
METER MOVEMENTS	N808
SATURABLE REACTORS AND MAGNETIC AMPLIFIERS	N818
WAVESHAPING CIRCUITS	N834
SINGLE SIDEBAND SYSTEMS	O845
PULSE MODULATION SYSTEMS	O875
ANTENNAS	O914
TRANSMISSION LINES	P953
WAVEGUIDES AND CAVITY RESONATORS	P984
MICROWAVE AMPLIFIERS AND OSCILLATORS	P1034
REGISTERS	Q1110
STORAGE DEVICES	Q1117
DIGITAL TO ANALOG CONVERTERS	Q1126
PHANTASTRONS	Q1140
SCHMITT TRIGGERS	R1141
CABLE FABRICATION	R1144
INPUT/OUTPUT DEVICES	S1146
PHOTO SENSITIVE DEVICES	S1149
SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	S1150
INFRARED	T1159
LASERS	T1186
DISPLAY TUBES	T1220
PROGRAMMING	U1234
DB AND POWER RATIOS	U1255

TABLE 2  
SPECIALTIES FOR WHICH DATA ARE PROVIDED  
IN THIS REPORT

304X5	321X2
316X1L	321X2A
316X3	324X0
321XOK	329XOA
321XOL	329XOB
321X1L	404X0
321X1G	404X1
321X1E	462X0

PRESENTATION OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. Group Summary (GPSUM) computer printouts are provided in the Appendix portion of this report. They summarize responses to the inventory by AFSC groups. The first page of the Group Summary lists the groups for which data are presented. The remainder of the Group Summary displays the percentage of each group who answered "yes" to each question asked in the EPI.

**APPENDIX**

PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

TABULATION OF PERCENT MEMBERS RESPONDING 'YES' TO  
QUESTIONS BY DAFSC GROUPS

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

GROUP IDENTITY = SPC151	ALL AIRMEN DAFSC 30455	CONTAINING 233 MEMBERS.
GROUP IDENTITY = SPC800	ALL AIRMEN DAFSC 31651L	CONTAINING 136 MEMBERS.
GROUP IDENTITY = SPC801	ALL OS AIRMEN DAFSC 31651L	CONTAINING 179 MEMBERS.
GROUP IDENTITY = SPC802	ALL AIRMEN DAFSC 31653	CONTAINING 321 MEMBERS.
GROUP IDENTITY = SPC803	ALL AIRMEN DAFSC 32150K	CONTAINING 55 MEMBERS.
GROUP IDENTITY = SPC804	ALL AIRMEN DAFSC 32150L	CONTAINING 13 MEMBERS.
GROUP IDENTITY = SPC805	ALL AIRMEN DAFSC 32151	CONTAINING 115 MEMBERS.
GROUP IDENTITY = SPC806	ALL AIRMEN DAFSC 321516	CONTAINING 52 MEMBERS.
GROUP IDENTITY = SPC807	ALL AIRMEN DAFSC 32151E	CONTAINING 26 MEMBERS.

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC								
	151	800	801	802	803	804	805	806	807
A 1 A1-01 IN YOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWERS OF 10.	89	92	50	79	76	69	82	85	73
A 2 A1-02 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS, OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL WAY ON THE JOB.	45	27	27	30	33	23	32	23	38
A 3 A1-03 DO YOU REARRANGE AND SOLVE FORMULAS OR EQUATIONS.	91	7	13	37	45	62	23	19	23
A 4 A1-04 DO YOU CALCULATE THE SQUARE ROOT OF A QUANTITY.	22	4	1	17	11	30	1	0	4
A 5 A1-05 DO YOU SOLVE FOR UNKNOWN QUANTITIES.	39	10	10	37	35	46	20	19	23
A 6 A1-06 DO YOU CONVERT NUMBERS TO LOGARITHMS.	9	1	0	8	0	3	0	12	8
A 7 A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS.	11	1	0	11	9	0	3	0	8
A 8 A1-08 DO YOU SOLVE QUADRATIC EQUATIONS.	12	1	1	10	5	0	3	0	8
A 9 A1-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS.	6	1	0	7	2	0	1	2	0
A 10 A1-10 DO YOU PERFORM CALCULATIONS ON VECTOR QUANTITIES.	17	1	0	14	36	38	1	2	0
A 11 A1-11 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT.	14	1	0	14	51	62	9	6	8
A 12 A1-12 DO YOU DETERMINE AREAS OF PLANE FIGURES.	11	2	0	9	20	8	2	0	8
A 13 A1-13 DO YOU SOLVE OR USE SIMULTANEOUS EQUATIONS.	12	3	2	10	11	0	3	0	8
A 14 A1-14 DO YOU SOLVE OR USE PROPORTIONS.	28	4	5	25	36	8	4	2	12
A 15 A2-01 DO YOU USE THE TERM VOLTAGE OR VOLT (V).	94	71	62	96	93	77	97	98	100
A 16 A2-02 DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF).	42	13	14	37	33	31	20	23	27
A 17 A2-03 DO YOU USE THE TERM OHM.	93	68	80	94	95	77	98	96	96
A 18 A2-04 DO YOU USE THE TERM ION.	26	2	2	16	20	0	4	6	4
A 19 A2-05 DO YOU USE THE TERM DYNE.	9	1	3	8	4	0	3	4	5
A 20 A2-06 DO YOU USE THE TERM AMPERE.	93	56	59	94	87	77	85	90	88
A 21 A2-07 DO YOU USE THE TERM NEUTRON.	23	3	3	14	16	0	7	6	4
A 22 A2-08 DO YOU USE THE TERM COULOMB.	21	2	2	18	15	0	9	10	4
A 23 A2-09 DO YOU USE THE TERM PROTON.	22	3	2	15	16	0	6	6	4
A 24 A3-01 DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.	83	41	42	77	67	77	83	90	92
A 25 A3-02 DO YOU INSPECT RESISTORS.	91	26	22	73	64	77	81	96	85
A 26 A3-03 DO YOU CLEAN RESISTORS.	89	15	9	96	95	62	98	60	38
A 27 A3-04 DO YOU ADJUST RESISTORS.	88	37	37	72	73	77	83	92	85
A 28 A3-05 DO YOU CHECK OHMIC VALUE OR RESISTORS.	91	31	27	79	71	77	83	96	85
A 29 A3-06 DO YOU REMOVE OR REPLACE RESISTORS.	90	22	16	75	62	77	78	86	88
A 30 A3-07 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTORS ON ANY TASKS YOU PERFORM.	30	5	3	29	22	0	19	17	23
A 31 A3-08 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED RESISTOR SYMBOLS OR TAPPED RESISTOR SYMBOLS.	91	24	20	75	67	77	70	81	81
A 32 A3-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK WITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT, OR POTENTIOMETER.	89	20	19	74	69	54	67	77	73
A 33 A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC VALUE OF RESISTANCE.	92	18	18	78	69	77	73	88	88

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

		DY-TSK						
		SPC	SPC	SPC	SPC	SPC	SPC	SPC
)	A 34 A3-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE TOLERANCE.	88	14	13	73	60	69	66
)	A 35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE FAILURE RATE.	21	4	4	19	9	0	18
)	A 36 A3-13 DO YOU MAKE DECISIONS IN WHICH YOU MUST DETERMINE HOW TWO OR MORE BATTERIES MUST BE CONNECTED TOGETHER TO ACHIEVE A SPECIFIC VOLTAGE.	35	6	4	36	15	8	15
)	A 37 A3-14 DO YOU USE OR REFER TO THE SCHEMATIC SYMBOLS WHICH REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES.	91	30	27	80	76	77	87
)	A 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES RESISTIVE CIRCUITS.	69	11	9	54	36	38	37
)	A 39 A3-16 DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE CIRCUITS.	58	10	8	48	36	31	36
)	A 40 A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES RESISTIVE CIRCUITS.	68	9	8	52	33	31	31
)	A 41 A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES RESISTIVE CIRCUITS.	52	7	5	40	22	15	23
)	A 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL RESISTIVE CIRCUITS.	64	8	9	51	38	31	32
)	A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL RESISTIVE CIRCUITS.	55	8	7	48	35	31	30
)	A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	63	7	7	48	29	15	29
)	A 45 A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	52	7	6	41	29	15	25
)	A 46 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES PARALLEL RESISTIVE CIRCUITS.	48	6	4	38	24	15	20
)	A 47 A3-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL RESISTIVE CIRCUITS.	65	7	7	50	33	31	31
)	A 48 A3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCUITS.	55	7	7	46	33	31	30
)	A 49 A3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR PARALLEL RESISTIVE CIRCUITS.	63	6	8	45	29	31	28
)	A 50 A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS.	51	6	6	41	29	8	24
)	A 51 A3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCUITS.	48	6	3	37	24	15	18
)	B 52 B1-01 DO YOU MEASURE RESISTANCE.	92	76	79	88	93	77	96
)	B 53 B1-02 DO YOU REPAIR OHMMETERS.	9	3	3	6	6	6	4
)	B 54 B1-03 DO YOU MEASURE VOLTAGE.	92	74	81	92	95	77	96
)	B 55 B1-04 DO YOU REPAIR VOLTMETERS.	7	3	2	5	5	4	4
)	B 56 B1-05 DO YOU REPAIR AMMETERS.	7	2	2	5	7	6	3
)	B 57 B1-06 DO YOU MEASURE CURRENT.	62	50	49	79	88	62	88
)	B 58 B1-07 DO YOU USE MULTIMETERS.	91	75	83	92	93	77	100
)	B 59 B1-08 DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED A COULOMB.	8	3	1	7	0	0	3
)	B 60 B1-09 DO YOU READ SCHEMATICS.	93	55	52	87	93	77	95
)		98	96					

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DVS-ISM	SPC								
	151	800	801	802	803	804	805	806	
B 61 B2-01 DO YOU USE OR REFER TO THE TERM EFFECTIVE VOLTAGE (RMS).	76	26	35	71	71	69	66	79	58
B 62 B2-02 DO YOU USE OR REFER TO THE TERM PEAK TO PEAK VOLTAGE.	87	32	45	80	84	77	82	87	73
B 63 B2-03 DO YOU USE OR REFER TO THE TERM AVERAGE VOLTAGE (DC).	78	24	40	64	73	69	75	79	73
B 64 B2-04 DO YOU USE OR REFER TO THE TERM WAVE LENGTH.	60	30	35	55	71	69	70	73	58
B 65 B2-05 DO YOU USE OR REFER TO THE TERM FREQUENCY.	91	60	65	88	88	77	90	98	68
B 66 B2-06 DO YOU USE OR REFER TO THE TERM INSTANTANEOUS VALUE.	36	11	9	30	40	15	20	21	27
B 67 B3-01 DO YOU WORK WITH INDUCTORS OR CIRCUITS CONTAINING INDUCTORS, CHOKES, OR CHOKE COILS IN YOUR PRESENT JOB.	63	13	11	38	45	23	48	56	42
B 68 B3-02 DO YOU INSPECT INDUCTORS.	65	6	6	35	35	31	38	44	50
B 69 B3-03 DO YOU CLEAN INDUCTORS.	76	4	9	21	20	23	23	35	15
B 70 B3-04 DO YOU ADJUST INDUCTORS.	82	7	9	29	29	23	26	31	27
B 71 B3-05 DO YOU REMOVE OR REPLACE INDUCTORS.	82	4	4	35	27	38	36	38	38
B 72 B3-06 DO YOU USE OR REFER TO INDUCTANCE.	75	7	5	37	33	38	33	35	35
B 73 B3-07 DO YOU USE OR REFER TO HENRIES.	64	6	4	30	18	31	17	23	19
B 74 B3-08 DO YOU USE OR REFER TO INDUCTIVE REACTANCE.	56	5	8	27	28	23	19	23	23
B 75 B3-09 DO YOU USE OR REFER TO COPPER LOSS IN INDUCTORS.	13	1	1	7	0	2	2	2	9
B 76 B3-10 DO YOU USE OR REFER TO HYSTERESIS LOSS IN INDUCTORS.	19	1	1	11	4	0	3	6	9
B 77 B3-11 DO YOU USE OR REFER TO EDDY CURRENT LOSS IN INDUCTORS.	18	1	1	8	4	0	3	4	4
B 78 B3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTANCE IS PROPORTIONAL TO THE SQUARE OF THE NUMBER OF TURNS OF THE COIL.	18	1	1	6	5	8	2	2	8
B 79 B2-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE CROSS SECTIONAL AREA OF THE CORE.	15	1	0	6	0	0	3	2	0
B 80 B2-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS INVERSELY PROPORTIONAL TO ITS LENGTH.	13	1	1	7	4	0	3	4	8
B 81 B2-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE PERMEABILITY OF THE CORE MATERIAL.	15	1	0	9	7	6	3	2	8
B 82 B2-16 DO YOU CALCULATE INDUCTANCE FOR PARTICULAR INDUCTORS USING FORMULAS.	16	1	1	9	5	0	0	0	0
B 83 B3-17 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN SERIES.	21	1	1	12	9	8	3	2	12
B 84 B3-18 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN PARALLEL.	21	1	1	11	9	8	3	2	12
B 85 B3-19 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN SERIES-PARALLEL CIRCUITS.	20	1	1	10	9	8	9	4	12
B 86 B3-20 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LAGS VOLTAGE IN AC INDUCTOR CIRCUITS.	40	3	1	22	20	15	17	17	27
B 87 B3-21 DO YOU CALCULATE INDUCTIVE REACTANCE.	26	1	1	13	11	15	2	0	8
B 88 B3-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO FREQUENCY.	33	1	0	17	13	15	5	4	12
B 89 B3-23 DO YOU WORK WITH POWER INDUCTORS.	95	9	3	16	16	23	26	33	27
B 90 B3-24 DO YOU WORK WITH AUDIO FREQUENCY INDUCTORS.	70	2	2	23	11	0	5	8	9
B 91 B3-25 DO YOU WORK WITH RADIO FREQUENCY INDUCTORS.	60	4	3	27	20	23	25	31	27

PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-TSK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
) C 92 CI-01 DO YOU WORK WITH CAPACITORS OR CIRCUITS CONTAINING CAPACITORS IN YOUR PRESENT JOB.	62	29	22	66	58	62	70	67	77	
) C 93 CI-02 DO YOU INSPECT CAPACITORS.	91	16	8	60	40	62	66	77	55	
) C 94 CI-03 DO YOU CLEAN CAPACITORS.	63	8	4	30	27	56	39	42	27	
) C 95 CI-04 DO YOU ADJUST CAPACITORS.	88	13	8	83	55	31	31	46	23	92
) C 96 CI-05 DO YOU TEST CAPACITORS.	89	13	4	55	31	31	46	46	42	
) C 97 CI-06 DO YOU DISCHARGE CAPACITORS.	89	13	10	50	42	46	65	73	69	
) C 98 CI-07 DO YOU REMOVE OR REPLACE CAPACITORS.	89	12	6	63	38	56	64	73	62	
) C 99 CI-08 DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE.	28	1	1	14	11	0	7	6	8	
) C 100 CI-09 DO YOU USE OR REFER TO ORBITAL STRESS OF ELECTRONS IN A DIELECTRIC.	6	1	1	5	0	2	0	0	0	
) C 101 CI-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS.	90	10	7	64	42	56	50	58	42	
) C 102 CI-11 DO YOU USE OR REFER TO CAPACITANCE.	86	16	8	63	42	56	57	63	54	
) C 103 CI-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT	22	5	0	14	7	8	8	12	4	
) C 104 CI-13 DO YOU USE OR REFER TO WORKING VOLTAGE RATING OF CAPACITORS.	87	6	4	52	25	8	42	42	58	
) C 105 CI-14 DO YOU USE OR REFER TO CAPACITIVE REACTANCE	50	4	1	35	20	15	26	25	35	
) C 106 CI-15 DO YOU USE OR REFER TO CAPACITOR COLOR CODES	60	7	2	26	11	15	30	33	35	
) C 107 CI-16 DO YOU WORK WITH CAPACITORS IN DC CIRCUITS	88	20	16	64	47	56	72	81	65	
) C 108 CI-17 DO YOU WORK WITH CAPACITORS IN AC CIRCUITS	87	23	17	61	47	56	73	79	69	
) C 109 CI-18 DO YOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC AND AC	85	20	12	60	44	56	65	69	65	
) C 110 CI-19 DO YOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH CIRCUITS	18	10	8	8	16	0	18	12	23	
) C 111 CI-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR CAPACITORS USING FORMULAS	21	1	0	13	7	15	1	2	0	
) C 112 CI-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE DIELECTRIC CONSTANT	13	0	0	8	4	0	3	4	0	
) C 113 CI-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO THE DIELECTRIC THICKNESS	12	0	0	11	9	0	3	4	4	
) C 114 CI-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES	38	1	0	26	15	15	14	6	35	
) C 115 CI-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL	38	1	0	27	15	15	12	6	31	
) C 116 CI-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES-PARALLEL CIRCUITS	36	1	0	19	11	15	12	6	31	
) C 117 CI-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO	58	1	1	30	15	15	16	17	23	
) C 118 CI-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS	39	1	0	27	13	23	17	17	31	
) C 119 CI-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO FREQUENCY	35	1	0	23	9	15	7	6	15	
) C 120 CI-29 DO YOU CALCULATE CAPACITIVE REACTANCE	24	1	0	15	11	15	7	6	19	

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	150	151	152	153	154	155
C 121 C1-30 DO YOU WORK WITH ROTOR-STATOR (VARIABLE) CAPACITORS	74	10	5	36	49	23	27
) C 122 C1-31 DO YOU WORK WITH COMPRESSION (TRIMMER) CAPACITORS	60	7	3	31	25	15	22
) C 123 C1-32 DO YOU WORK WITH ELECTROLYTIC (FIXED) CAPACITORS	92	13	7	62	36	46	69
) C 124 C1-33 DO YOU WORK WITH PAPER (FIXED) CAPACITORS	68	9	7	51	31	38	47
) C 125 C1-34 DO YOU WORK WITH MICA (FIXED) CAPACITORS	69	11	7	54	29	31	46
) C 126 C1-35 DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS	90	11	7	59	36	38	59
) C 127 C1-36 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF CAPACITORS	13	13	12	12	15	31	25
) C 128 C2-01 DO YOU WORK WITH TRANSFORMERS IN YOUR PRESENT JOB	79	12	15	48	55	69	63
) C 129 C2-02 DO YOU INSPECT TRANSFORMERS	66	7	8	39	47	69	66
) C 130 C2-03 DO YOU CLEAN TRANSFORMERS	79	6	8	25	25	38	37
) C 131 C2-04 DO YOU ADJUST TRANSFORMERS	48	7	5	21	35	46	36
) C 132 C2-05 DO YOU TROUBLESHOOT TRANSFORMERS	61	5	7	36	45	77	60
) C 133 C2-06 DO YOU REMOVE OR REPLACE COMPLETE TRANSFORMERS	86	7	8	43	53	69	71
) C 134 C2-07 DO YOU REMOVE OR REPLACE TRANSFORMER PARTS, SUCH AS	11	0	1	4	4	0	6
THE PRIMARY WINDING							
C 135 C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION AND MUTUAL INDUCTANCE (M)	12	1	1	6	2	0	2
) C 136 C2-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, M	9	1	0	6	2	3	2
) C 137 C2-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH TRANSFORMERS	18	3	0	9	5	8	3
) C 138 C2-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING CURRENT OR VOLTAGE RATIOS	20	1	1	11	7	8	3
) C 139 C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH TRANSFORMERS	21	1	0	6	5	0	2
) C 140 C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR TRANSFORMERS	13	1	0	6	4	0	1
) C 141 C2-14 DO YOU WORK WITH AUTOTRANSFORMERS	53	2	1	11	27	69	26
) C 142 C2-15 DO YOU WORK WITH POWER TRANSFORMERS	88	5	12	45	55	77	60
) C 143 C2-16 DO YOU WORK WITH AUDIO TRANSFORMERS	68	1	1	28	16	0	11
) C 144 C2-17 DO YOU WORK WITH RADIO FREQUENCY TRANSFORMERS	57	1	2	26	29	15	30
) C 145 C2-18 DO YOU WORK WITH DON'T REMEMBER WHAT TYPE OF TRANSFORMERS	14	5	6	13	8	23	27
) C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY MEASURING RESISTANCE	88	6	6	37	47	77	60
) C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING RESISTANCE	61	5	6	33	40	77	58
) C 148 C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES	73	7	4	32	40	46	59
) C 149 C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TURNS RATIO	40	4	2	14	7	8	17
) C 150 C2-23 DO YOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TURNS RATIO	55	5	3	23	16	8	27
) C 151 C2-24 DO YOU REFER TO BASIC TRANSFORMER SCHEMATIC SYMBOLS FOR TRANSFORMERS	91	6	11	48	53	77	69

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

| SPC |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 151 | 800 | 801 | 802 | 803 | 804 | 805 | 806 |
| 807 |     |     |     |     |     |     |     |

DY-TSK

C 152 C2-25 DO YOU REFER TO MULTIPLE SECONDARY-MINDINGS SCHEMATIC SYMBOLS FOR TRANSFORMERS	82	4	6	38	51	62	52	58	62
C 153 C2-26 DO YOU REFER TO MULTIPLE TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS	85	6	6	42	49	69	56	63	62
C 154 C2-27 DO YOU REFER TO CENTER TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS	68	6	7	46	51	62	58	65	65
C 155 C2-28 DO YOU REFER TO AIR CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS	70	4	5	30	25	31	24	29	23
C 156 C2-29 DO YOU REFER TO IRON CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS	78	5	5	35	33	46	26	31	27
C 157 C2-30 DO YOU REFER TO COMBINATIONS OF THE ABOVE SCHEMATIC SYMBOLS FOR TRANSFORMERS	78	7	4	37	48	69	47	44	50
C 158 C2-31 DO YOU DETERMINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING SCHEMATIC SYMBOLS	42	0	2	17	35	8	25	23	19
C 159 C2-32 DO YOU DETERMINE OR REFER TO THE TYPE OF CORE IN TRANSFORMERS YOU WORK WITH	61	3	1	16	18	23	9	12	4
C 160 C2-33 DO YOU REFER TO OR USE THE GENERAL RULE THAT THE TURN'S RATIO OF A TRANSFORMER IS EQUAL TO THE VOLTAGE RATIO	31	1	1	12	9	15	8	8	12
C 161 C2-34 DO YOU USE OR REFER TO STEP-UP OR STEP-DOWN RATIOS FOR TRANSFORMERS	50	5	2	23	24	8	19	21	12
C 162 C2-35 DO YOU CALCULATE VOLTAGE RATIOS FOR TRANSFORMERS USING TURN'S RATIOS	22	1	1	10	7	8	4	4	4
C 163 C2-36 DO YOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS USING TURN'S RATIOS	20	1	1	8	7	0	3	2	0
C 164 C2-37 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH THREE PHASE TRANSFORMERS	17	7	6	15	38	31	35	29	46
C 165 C2-38 DO YOU INSPECT THREE PHASE TRANSFORMERS	12	5	4	8	27	23	30	29	42
C 166 C2-39 DO YOU CLEAN OR LUBRICATE THREE PHASE TRANSFORMERS	9	4	1	3	13	8	11	13	8
C 167 C2-40 DO YOU ADJUST THREE PHASE TRANSFORMERS	7	5	3	3	18	0	13	10	19
C 168 C2-41 DO YOU TROUBLESHOOT THREE PHASE TRANSFORMERS	13	9	1	6	22	23	26	25	35
C 169 C2-42 DO YOU REMOVE OR REPLACE COMPLETE THREE PHASE TRANSFORMERS	15	4	2	9	31	23	28	23	38
C 170 C2-43 DO YOU REMOVE OR REPLACE THREE PHASE TRANSFORMER PARTS SUCH AS WINDINGS	5	1	0	2	2	0	2	2	0
C 171 C3-01 DO YOU USE OR REFER TO PERMANENT MAGNETS	69	12	7	30	56	38	59	67	62
C 172 C3-02 DO YOU USE OR REFER TO TEMPORARY MAGNETS	48	10	9	26	22	23	25	21	31
C 173 C3-03 DO YOU USE OR REFER TO RETENTIVITY OF MAGNETIC MATERIALS	18	2	1	17	5	0	6	2	0
C 174 C3-04 DO YOU USE OR REFER TO RELUCTANCE OF MAGNETIC MATERIALS	17	3	1	13	9	0	4	0	0
C 175 C3-05 DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC MATERIALS	20	4	1	17	15	0	4	2	0
C 176 C3-06 DO YOU USE OR REFER TO RESIDUAL MAGNETISM	31	3	1	26	9	0	8	0	8
C 177 C3-07 DO YOU USE OR REFER TO MAGNETIC LINES OF FORCE OR FLUX	41	10	6	29	18	38	18	19	19
C 178 C3-08 DO YOU USE OR REFER TO WEBER'S THEORY OF MAGNETISM	10	2	0	4	2	0	1	0	0

## PCT MARS RESPONDING 'YES' BY DAESG GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DAESG	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
) C 179 C3-09 DO YOU USE OR REFER TO DOMAIN THEORY OF MAGNETISM	11	2	0	5	2	0	1	0	0
) C 180 C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION	34	6	2	26	15	15	15	15	19
) C 181 C3-11 DO YOU USE OR REFER TO FLUX DENSITY	25	9	1	22	11	15	3	2	8
) C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT	56	11	12	34	31	46	36	35	35
) C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES	26	6	3	23	22	23	9	13	4
) C 184 C3-14 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE NORTH POLE OF A CURRENT CARRYING COIL	21	5	1	16	18	15	8	12	4
) D 185 D1-01 DO YOU WORK WITH RC, LR, RCL CIRCUITS IN YOUR PRESENT JOB	67	5	4	33	25	31	31	31	35
) D 186 D1-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS	24	1	0	10	13	8	3	4	4
) D 187 D1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS	12	0	0	8	9	8	1	0	0
) D 188 D1-04 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL CIRCUITS	17	1	0	8	13	23	7	6	8
) D 189 D1-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL CIRCUITS	19	1	0	7	13	23	6	6	0
) D 190 D1-06 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS	19	1	0	6	11	8	3	2	0
) D 191 D1-07 DO YOU USE OR REFER TO WATTS WHEN WORKING WITH RCL CIRCUITS	46	4	1	23	11	23	17	13	23
) D 192 D1-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING WITH RCL CIRCUITS	28	1	0	11	9	8	6	6	9
) D 193 D1-09 DO YOU USE OR REFER TO MAXIMUM POWER (PM) WHEN WORKING WITH RCL CIRCUITS	32	3	1	12	9	8	9	10	8
) D 194 D1-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN WORKING WITH RCL CIRCUITS	30	3	0	15	9	8	11	13	12
) D 195 D1-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN WORKING WITH RCL CIRCUITS	24	1	1	9	7	8	3	2	9
) D 196 D1-12 DO YOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING WITH RCL CIRCUITS	27	2	0	9	5	8	6	6	9
) D 197 D1-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN WORKING WITH RCL CIRCUITS	64	2	1	30	15	23	20	21	19
) D 198 D1-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH RCL CIRCUITS	67	9	2	31	22	23	26	25	23
) D 199 D1-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH RCL CIRCUITS	57	4	2	27	18	15	18	17	12
) D 200 D1-16 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH RCL CIRCUITS	61	4	2	29	20	23	26	25	23
) D 201 D1-17 DO YOU USE OR REFER TO HALF POWER POINTS WHEN WORKING WITH RCL CIRCUITS	23	1	0	8	5	8	2	2	0
) D 202 D1-18 DO YOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH RCL CIRCUITS	51	3	1	24	9	15	11	8	8
) D 203 D1-19 DO YOU USE OR REFER TO CIRCUIT Q WHEN WORKING WITH RCL CIRCUITS	40	1	0	20	5	8	4	2	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC								
	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	
D 204 01-20 DO YOU USE OR REFER TO TANK CIRCUITS WHEN WORKING WITH RCL CIRCUITS	65	4	2	26	11	23	18	19	15
D 205 01-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS USING FORMULAS	9	1	0	7	13	15	0	0	0
D 206 01-22 DO YOU DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR DIAGRAMS FOR CIRCUITS	14	0	1	7	7	8	2	0	0
D 207 01-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE CIRCUITS	21	0	1	11	7	15	4	2	9
D 208 01-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS	10	0	0	6	4	6	0	0	0
D 209 01-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL CIRCUITS	18	1	1	11	5	15	1	0	0
D 210 01-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL CIRCUITS	10	1	1	4	4	0	1	0	0
D 211 01-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL CIRCUITS	12	1	1	6	5	8	1	0	0
D 212 01-28 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES RCL CIRCUITS	12	1	1	8	5	8	1	0	0
D 213 01-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SERIES RCL CIRCUITS	13	1	1	7	5	8	1	0	0
D 214 01-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL CIRCUITS	18	1	1	11	7	15	3	2	9
D 215 01-31 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL CIRCUITS	9	1	0	4	4	0	1	0	0
D 216 01-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING THE ASSUMED VOLTAGE METHOD	12	1	0	7	2	0	1	0	0
D 217 01-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING OHM'S LAW	21	1	1	11	7	15	2	0	9
D 218 01-34 DO YOU CHECK CAPACITORS USING OMMETERS	12	4	2	30	16	38	26	19	42
D 219 01-35 DO YOU CHECK CAPACITORS USING SUBSTITUTION	69	4	2	22	7	23	16	16	23
D 220 01-36 DO YOU CHECK INDUCTORS USING OMMETERS	71	4	2	26	18	31	21	17	39
D 221 01-37 DO YOU CHECK INDUCTORS USING SUBSTITUTION	56	3	1	16	9	15	12	10	19
D 222 01-38 DO YOU USE OR REFER TO THE GENERAL RULE THAT $\theta = 90^\circ$ IF $\theta_{PA} = 0^\circ$ AND $\theta_{PT} = 90^\circ$ FOR RESONANT CIRCUITS	4	0	3	4	0	0	0	0	0
D 223 01-39 DO YOU CALCULATE RESONANT FREQUENCIES FOR RCL CIRCUITS	22	0	1	11	7	8	3	4	4
D 224 01-40 DO YOU USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY FOR PARALLEL RCL CIRCUITS	32	1	1	15	7	8	3	4	0
D 225 01-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT FREQUENCY FOR PARALLEL RCL CIRCUITS	27	1	1	16	7	8	2	4	0
D 226 01-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK CURRENT VALUE	26	1	1	11	9	15	5	6	0
D 227 01-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO $\frac{1}{C}$	31	0	1	13	5	8	1	2	0
D 228 01-44 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE ANGLES FOR RCL CIRCUITS	21	1	0	9	4	6	2	4	0

**TASK GROUP SUMMARY**  
**PERCENT MEMBERS PERFORMING**

DAFSK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
D 229 D2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH, USE, OR REFER TO SERIES OR PARALLEL RESONANT CIRCUITS OR TIME CONSTANTS	46	5	2	25	11	15	15	13	15
) D 230 D2-02 DO YOU WORK WITH, USE, OR REFER TO TIME CONSTANTS	42	3	1	24	11	15	12	13	12
) D 231 D2-03 DO YOU WORK WITH, USE, OR REFER TO AVAILABLE VOLTAGE	28	2	1	19	4	0	3	4	4
) D 232 D2-04 DO YOU WORK WITH, USE, OR REFER TO TRANSIENT INTERVALS	25	1	1	11	4	0	1	0	0
) D 233 D2-05 DO YOU USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED (OR DISCHARGED) AFTER FIVE (5) TIME CONSTANTS (TC)	19	1	0	17	7	9	9	2	9
) D 234 D2-06 DO YOU USE OR REFER TO UNIVERSAL TIME CONSTANT CHARTS	16	1	0	11	2	6	0	0	0
) D 235 D2-07 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC TIME FOR RC OR LR CIRCUITS	15	1	0	11	0	8	0	0	0
) D 236 D2-08 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO REACH SPECIFIC VALUES FOR RC OR LR CIRCUITS	19	1	0	11	0	6	0	0	0
) D 237 D2-09 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND COMPONENT VOLTAGES TO REACH SPECIFIC VALUES IN SPECIFIC TIMES	19	1	0	11	0	6	0	0	0
D 238 D2-10 DO YOU USE, OR REFER TO, THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (OR ZERO) AFTER FIVE (5) TIME CONSTANTS	20	1	0	10	4	6	1	2	0
) D 239 D3-01 DO YOU WORK WITH CIRCUITS USED AS FILTERS IN YOUR PRESENT JOB	77	6	3	49	36	15	43	40	58
D 240 D3-02 DO YOU INSPECT FILTER CIRCUITS	79	5	3	35	33	8	33	33	92
) D 241 D3-03 DO YOU CLEAN FILTER CIRCUITS	67	4	2	22	22	6	19	25	15
) D 242 D3-04 DO YOU ALIGN OR ADJUST FILTER CIRCUITS	56	4	2	30	29	0	21	19	23
) D 243 D3-05 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT LEVEL	69	4	2	33	38	6	35	35	82
) D 244 D3-06 DO YOU TROUBLESHOOT TO COMPONENT PARTS	72	4	2	31	28	6	32	27	92
) D 245 D3-07 DO YOU REMOVE OR REPLACE THE COMPLETE FILTER CIRCUIT	58	4	2	40	44	6	35	33	50
) D 246 D3-08 DO YOU REMOVE OR REPLACE FILTER CIRCUIT COMPONENT PARTS	73	4	2	31	22	8	25	17	38
) D 247 D3-09 DO YOU WORK WITH LOW PASS FILTERS	73	3	1	44	22	8	18	17	19
) D 248 D3-10 DO YOU WORK WITH HIGH PASS FILTERS	79	3	1	39	22	6	17	17	15
) D 249 D3-11 DO YOU WORK WITH BANDPASS FILTERS	72	3	1	42	16	0	17	13	12
) D 250 D3-12 DO YOU WORK WITH BAND-REJECT FILTERS	48	2	1	24	13	0	9	8	8
) D 251 D3-13 DON'T REMEMBER WHICH TYPE OF FILTER YOU WORK WITH	13	3	2	7	20	8	22	23	23
) D 252 D3-14 DO YOU WORK WITH L-SECTION FILTER CONFIGURATION	66	1	1	18	7	0	9	6	15
) D 253 D3-15 DO YOU WORK WITH T-SECTION FILTER CONFIGURATION	63	1	1	18	7	0	7	6	12
) D 254 D3-16 DO YOU WORK WITH PI-SECTION FILTER CONFIGURATION	37	1	1	18	5	0	6	6	8
) D 255 D3-17 DON'T REMEMBER WHICH TYPE FILTER CONFIGURATION	25	4	2	22	25	15	30	33	27
) D 256 D3-18 DO THE FILTERS YOU WORK WITH USE PARALLEL RESONANT CIRCUITS	58	4	1	21	11	0	15	13	12
) D 257 D3-19 DO THE FILTERS YOU WORK WITH USE SERIES-PARALLEL CIRCUITS	59	3	1	22	15	0	16	15	12
) D 258 D3-20 DO THE FILTERS YOU WORK WITH USE SERIES RESONANT CIRCUITS	58	3	1	21	11	0	16	15	12

PCT MEMBERS RESPONDING "YES" BY DAESE GROUPS

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**AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND**

**TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING**

D 259 D3-21 DON'T REMEMBER WHICH TYPE OF BASIC CIRCUIT

D 260 D3-22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC FILTERS

E 261 E1-01 DO YOU WORK WITH COUPLING DEVICES IN YOUR PRESENCE

E 262 E1-02 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH RC COUPLING

E 263 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH IMPEDANCE COUPLING

E 264 E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH TRANSFORMER COUPLING

E 265 E1-05 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM RC COUPLING

E 266 E1-06 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM IMPEDANCE COUPLING

E 267 E1-07 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM TRANSFORMER COUPLING

E 268 E1-08 DO YOU WORK WITH DIRECTLY COUPLED CIRCUITS

E 269 E1-09 DO YOU WORK WITH CAPACITIVE-RESISTIVE COUPLED CIRCUITS

E 270 E1-10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS

E 271 E1-11 DO YOU WORK WITH TRANSFORMER COUPLED CIRCUITS

E 272 E1-12 DON'T REMEMBER WHICH TYPE OF COUPLING CIRCUITS

E 273 E2-01 IN YOUR PRESENT JOB, DO YOU PERFORM SOLDERING TECHNIQUES OR INSPECT OR EVALUATE SOLDERED CONNECTIONS

E 274 E2-02 DO YOU SELECT TYPE OF SOLDER TO USE

E 275 E2-03 DO YOU ADD FLUX TO CONNECTIONS

E 276 E2-04 DO YOU CLEAN CONNECTIONS USING SOLVENTS

E 277 E2-05 DO YOU STRIP INSULATION FROM WIRES

E 278 E2-06 DO YOU CONNECT OR DISCONNECT HEAT SINKS

E 279 E2-07 DO YOU BEND OR SHAPE WIRES OR LEADS

E 280 E2-08 DO YOU CUT WIRES

E 281 E2-09 DO YOU FILE OR SHAPE SOLDERING IRON TIPS

E 282 E2-10 DO YOU TIN SOLDERING IRON TIPS

E 283 E2-11 DO YOU CLEAN SOLDERING IRON TIPS

E 284 E2-12 DO YOU VACUUM ELECTRICAL SURFACES USING ERASERS

E 285 E2-13 DO YOU TIN OR PRE-TIN CONDUCTORS

E 286 E2-14 DO YOU INSPECT SOLDERED CONNECTIONS

E 287 E2-15 DO YOU DESOLDER CONNECTIONS BY WICKING

E 288 E2-16 DO YOU DESOLDER CONNECTIONS USING VACUUM DESOLDER TOOLS

E 289 E2-17 DO YOU CUT COMPONENT LEADS TO REMOVE COMPONENTS

E 290 E2-18 DO YOU CRUSH COMPONENTS FOR REMOVAL

**TASK GROUP SUMMARY**  
**PERCENT MEMBERS PERFORMING**

DI-1SK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
E 291 E2-19 DO YOU MAKE HARDWIRE CONNECTIONS	65	26	23	76	82	69	82	85	85
E 292 E2-20 DO YOU MAKE PRINTED CIRCUIT BOARD CONNECTIONS	68	15	12	67	42	38	54	50	62
E 293 E2-21 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS OR CAPACITORS ON PRINTED CIRCUIT BOARDS	68	15	8	68	38	36	53	44	62
E 294 E2-22 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS	88	14	6	66	31	38	39	21	54
E 295 E3-01 DO YOU WORK WITH RELAYS ON YOUR PRESENT JOB	76	18	16	57	85	77	83	90	92
E 296 E3-02 DO YOU ADJUST RELAYS	43	11	7	14	36	8	45	58	62
E 297 E3-03 DO YOU CLEAN RELAYS	66	6	6	30	40	23	49	56	65
E 298 E3-04 DO YOU INSPECT RELAYS	73	16	7	42	67	54	67	79	77
E 299 E3-05 DO YOU REMOVE OR REPLACE COMPLETE RELAYS	70	18	8	52	89	69	77	82	77
E 300 E3-06 DO YOU REMOVE OR REPLACE PARTS OR RELAYS	24	4	2	8	5	0	20	17	46
E 301 E3-07 DO YOU TROUBLESHOOT RELAYS	71	14	7	40	71	77	76	77	85
E 302 E3-08 DO YOU STRAIGHTEN RELAY CONTACTS	52	11	6	24	60	38	48	54	69
E 303 E3-09 DO YOU PERFORM TASKS ON RELAY CORES	60	7	5	21	20	23	38	49	65
E 304 E3-10 DO YOU PERFORM TASKS ON RELAY COILS	17	2	0	4	5	0	10	6	27
E 305 E3-11 DO YOU PERFORM TASKS ON RELAY ARMATURES	20	3	0	6	9	0	12	10	31
E 306 E3-12 DO YOU PERFORM TASKS ON RELAY SPRINGS	26	3	0	9	13	0	20	15	50
E 307 E3-13 DO YOU PERFORM TASKS ON RELAY SPONGES	34	3	3	11	5	0	22	15	62
E 308 E3-14 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY OPEN (NO) SCHEMATIC SYMBOLS FOR RELAYS	62	13	10	50	58	69	69	77	69
E 309 E3-15 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPDT) SCHEMATIC SYMBOLS FOR RELAYS	61	13	9	50	56	69	67	75	65
E 310 E3-16 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPST) SCHEMATIC SYMBOLS FOR RELAYS	60	13	8	48	55	69	66	77	65
E 311 E3-17 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (DPDT) SCHEMATIC SYMBOLS FOR RELAYS	60	12	9	48	53	69	67	77	69
E 312 E3-18 DO YOU USE OR REFER TO OTHER RELAY SYMBOLS SCHEMATIC SYMBOLS FOR RELAYS	55	11	7	42	60	69	66	65	77
E 313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE	70	9	5	40	47	59	60	60	73
F 314 FI-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH MICROPHONES	76	3	2	21	4	23	10	13	4
F 315 FI-02 DO YOU INSPECT MICROPHONES	73	1	0	10	2	0	2	2	0
F 316 FI-03 DO YOU CLEAN MICROPHONES	64	0	1	8	0	8	0	0	0
F 317 FI-04 DO YOU OPERATE MICROPHONES	71	2	2	22	8	23	10	15	0
F 318 FI-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS OR MICROPHONES	56	0	1	13	2	15	3	6	0
F 319 FI-06 DO YOU TROUBLESHOOT DOWN TO MICROPHONE PARTS	96	0	0	5	0	0	1	0	0
F 320 FI-07 DO YOU REMOVE OR REPLACE COMPLETE MICROPHONES	71	1	1	12	2	8	8	6	0
F 321 FI-08 DO YOU REMOVE OR REPLACE MICROPHONE PARTS	42	0	0	5	2	0	1	0	0
F 322 FI-09 DO YOU PERFORM TASKS ON CARBON MICROPHONES	50	0	1	8	0	0	1	2	0
F 323 FI-10 DO YOU PERFORM TASKS ON CAPACITOR MICROPHONES	28	0	1	3	0	0	0	0	0
F 324 FI-11 DO YOU PERFORM TASKS ON CRYSTAL MICROPHONES	29	0	1	4	0	0	1	0	4
F 325 FI-12 DO YOU PERFORM TASKS ON DYNAMIC MICROPHONES	61	1	1	7	2	0	2	4	0
F 326 FI-13 DO YOU PERFORM TASKS ON VELOCITY RIBBON MICROPHONES	21	1	2	0	0	0	0	0	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-TSK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
) F 327 F2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH SPEAKERS	76	0	0	21	0	0	3	2	0	0
) F 328 F2-02 DO YOU INSPECT SPEAKERS	73	0	0	15	0	0	0	0	0	0
) F 329 F2-03 DO YOU CLEAN SPEAKERS	61	0	0	10	0	0	0	0	0	0
) F 330 F2-04 DO YOU OPERATE SPEAKERS	72	0	0	19	0	0	2	2	0	0
) F 331 F2-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS, BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS OF SPEAKERS	67	0	0	15	0	0	0	0	0	0
) F 332 F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER PARTS	29	0	0	5	0	0	0	0	0	0
) F 333 F2-07 DO YOU REMOVE OR REPLACE COMPLETE SPEAKERS	73	0	0	16	0	0	0	0	0	0
) F 334 F2-08 DO YOU REMOVE OR REPLACE SPEAKER PARTS	18	0	0	3	0	0	0	0	0	0
) F 335 F2-09 DO YOU PERFORM ANY TASKS ON SPEAKER CONES	18	0	0	2	0	0	0	0	0	0
) F 336 F2-10 DO YOU PERFORM ANY TASKS ON SPEAKER SPIDERS	6	0	0	1	0	0	0	0	0	0
) F 337 F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER FIELD COILS	9	0	0	2	0	0	0	0	0	0
) F 338 F2-12 DO YOU PERFORM ANY TASKS ON SPEAKER VOICE COILS	14	0	0	2	0	0	0	0	0	0
) F 339 F2-13 DO YOU PERFORM ANY TASKS ON SPEAKER PERMANENT MAGNETS	13	0	0	2	0	0	0	0	0	0
) F 340 F2-14 DO YOU PERFORM ANY TASKS ON SPEAKER ELECTROMAGNETS	12	0	0	2	0	0	0	0	0	0
) F 341 F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER SOFT IRON CORES	9	0	0	2	0	0	0	0	0	0
) F 342 F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRESENT JOB	91	91	55	83	85	77	83	88	85	85
) F 343 F3-02 DO YOU USE OSCILLOSCOPES TO PERFORM OPERATIONAL CHECKS	90	30	38	81	87	77	80	85	77	77
) F 344 F3-03 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR ADJUSTMENTS	88	33	43	75	89	77	86	94	77	77
) F 345 F3-04 DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC CIRCUITS	90	25	35	69	85	77	81	85	81	81
) F 346 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY	80	34	45	75	76	69	77	79	77	77
) F 347 F3-06 DO YOU USE OSCILLOSCOPES TO MEASURE TIME	79	32	41	64	86	77	77	90	77	77
) F 348 F3-07 DO YOU USE OSCILLOSCOPES TO OBSERVE LISAJOUS PATTERNS	37	6	9	20	40	38	27	33	19	19
) F 349 F3-08 DO YOU USE OSCILLOSCOPES TO OBSERVE SIGNALS WHILE UTILIZING ATTENUATOR PROBES	87	16	31	63	75	62	64	71	54	54
) F 350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME MEASUREMENTS USING DELAY TIME MULTIPLIERS	69	24	20	45	75	54	39	50	38	38
) F 351 F3-10 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE	82	30	48	75	82	77	76	79	73	73
) F 352 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE OR OBSERVE SIGNALS AFTER FIRST ADJUSTING THE GAIN AND DC BAL. CONTROLS	77	15	20	66	65	69	62	67	58	58
) F 353 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE DC VOLTAGE	88	26	37	79	91	77	71	75	62	62
) F 354 F3-13 DO YOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT JOB	88	8	7	60	40	23	48	44	50	50
) 6 355 61-02 DO YOU INSPECT DIODES	88	7	6	52	48	15	42	42	46	46
) 6 356 61-03 DO YOU REMOVE OR REPLACE DIODES	87	7	6	55	65	15	49	49	52	52
) 6 357 61-04 DO YOU CHECK DIODES USING AN INSTRUMENT	89	7	6	54	64	15	49	49	46	46
) 6 358 61-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH DIODES	8	0	0	7	2	0	0	0	0	0
) 6 359 61-06 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, TOGETHER WITH VALUES OF FORWARD AND REVERSE BIAS VOLTAGE, TO COMPUTE FORWARD OR REVERSE LIAS RESISTANCE	21	1	0	8	2	0	1	0	0	0
) 6 360 61-07 DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR DIODES	31	2	1	11	7	0	10	12	12	12

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC							
	151	800	801	802	803	804	805	806
6 361 61-08 DO YOU USE OR REFER TO THE GENERAL RULE THAT TEMPERATURE CAN AFFECT THE OPERATION OF DIODES	71	5	1	39	11	15	25	23
6 362 61-09 DO YOU IDENTIFY SEMICONDUCTOR DIODES AS OPPOSED TO OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED ON THEIR PHYSICAL APPEARANCE	83	5	3	53	40	23	40	42
6 363 61-10 DO YOU REFER TO OR DO YOU DETERMINE THE GENERAL EFFECTS OF DOPING ON CURRENT FLOW	21	1	1	9	7	8	3	2
6 364 61-11 DO YOU USE OR REFER TO MEASUREMENTS OF FORWARD BIAS RESISTANCE	78	5	2	37	24	8	21	17
6 365 61-12 DO YOU USE OR REFER TO DIODE COLOR CODING	59	6	2	26	13	8	20	13
6 366 61-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS	7	0	2	2	0	0	0	0
6 367 61-14 DO YOU USE OR REFER TO CENTRIPETAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS	6	0	0	2	2	0	0	0
6 368 61-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH AS IN 538	81	4	2	47	31	23	27	29
6 369 61-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON MOVING IN ORBIT	8	1	0	3	4	0	0	0
6 370 61-17 DO YOU USE OR REFER TO POTENTIAL ENERGY OF AN ELECTRON MOVING IN ORBIT	9	0	0	3	4	0	0	0
6 371 61-18 DO YOU USE OR REFER TO MEASUREMENTS OF REVERSE BIAS RESISTANCE	79	4	2	36	25	8	17	13
6 372 61-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A PARTICULAR SHELL OR ORBIT	12	0	0	3	2	0	0	0
6 373 61-20 DO YOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF AN ORBITING ELECTRON	6	0	0	3	2	0	0	0
6 374 61-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN ORBITING ELECTRON	6	0	0	3	2	0	0	0
6 375 61-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN THE OUTERMOST SHELL)	13	1	0	4	2	0	0	0
6 376 61-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF ELECTRONS IN ATOM)	11	0	0	3	2	0	0	0
6 377 61-24 DO YOU USE OR REFER TO SYMBOLS ON THE DIODE WHICH INDICATE THE CATHODE END	85	7	4	55	33	15	33	31
6 378 61-25 DO YOU NEED TO KNOW WHICH MATERIALS ARE USED IN THE CONSTRUCTION OF DIODES, SUCH AS GERMANIUM OR SILICON	48	9	0	23	11	8	7	15
6 379 61-26 DO YOU NEED TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS OF RESISTANCE (AS TEMPERATURE INCREASES, RESISTANCE DECREASES)	46	9	1	26	11	8	9	8
6 380 61-27 DO YOU USE OR REFER TO PN JUNCTION DIODE CHARACTERISTIC CURVES, SUCH AS VOLTAGE - CURRENT CHARACTERISTIC CURVES (PERHAPS YOU DO THIS TO IDENTIFY POINTS OF STRUCTURAL BREAKDOWN OR OPERATING REGIONS)	24	0	1	19	4	0	1	0
6 381 61-28 DO YOU DETERMINE WHETHER PN JUNCTION DIODES ARE FORWARD BIASED OR REVERSE BIASED WHEN YOU READ OR INTERPRET CIRCUIT DIAGRAMS	71	2	2	42	29	6	17	13
6 382 61-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS	13	0	0	3	4	0	2	0

## PCT. MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC						
	151	800	801	802	803	804	805
6 383 61-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS	8	0	0	3	4	0	0
6 384 61-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS	10	0	0	3	5	0	1
6 385 61-32 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTOR MATERIALS	12	0	0	3	6	0	0
6 386 61-33 DO YOU USE OR REFER TO ELECTRON-HOLE PAIR CREATED IN SEMICONDUCTORS	13	0	0	6	5	0	0
6 387 61-34 DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN SEMICONDUCTORS	21	0	0	13	5	0	2
6 388 61-35 DO YOU USE OR REFER TO DONOR IMPURITY IN SEMICONDUCTORS	19	1	0	7	4	0	0
6 389 61-36 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN SEMICONDUCTORS	19	1	0	7	5	0	0
6 390 61-37 DO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL	95	1	0	20	9	8	3
6 391 61-38 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL	96	1	0	21	11	8	3
6 392 61-39 DO YOU USE OR REFER TO MAJORITY CARRIERS IN SEMICONDUCTORS	18	1	0	7	4	8	0
6 393 61-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN SEMICONDUCTORS	17	1	0	7	4	8	0
6 394 61-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS	13	1	0	6	2	8	0
6 395 61-42 DO YOU USE OR REFER TO DEPLETION REGION IN SEMICONDUCTORS	20	1	0	11	5	0	0
6 396 61-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL	15	0	0	7	7	0	0
6 397 61-44 DO YOU USE OR REFER TO THE 10:1 BACK TO FRONT RESISTANCE RATIO FOR DIODES	77	1	2	26	20	8	17
6 398 61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN SEMICONDUCTORS	10	0	0	2	4	0	0
6 399 61-46 DC YOU USE OR REFER TO DIODE SUBSTITUTION INFORMATION	75	2	1	32	18	8	9
6 400 61-47 DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD CURRENT DIODE RATINGS	42	1	1	27	11	0	3
6 401 61-48 DO YOU USE OR REFER TO PEAK RECURRENT FORWARD CURRENT DIODE RATINGS	35	0	1	20	9	0	1
6 402 61-49 DO YOU USE OR REFER TO MAXIMUM SURGE CURRENT DIODE RATINGS	38	0	1	25	9	0	2
6 403 61-50 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE DIODE RATINGS	54	1	1	29	11	0	3
6 404 62-01 DO YOU WORK WITH TRANSISTORS IN YOUR PRESENT JOB.	91	4	10	63	35	15	36
6 405 62-02 DO YOU INSPECT TRANSISTORS	90	8	7	55	31	15	30
6 406 62-03 DO YOU REMOVE OR REPLACE TRANSISTORS	89	4	4	58	27	15	25
6 407 62-04 DO YOU CHECK TRANSISTORS USING AN INSTRUMENT	90	9	3	56	29	15	25
6 408 62-05 DO YOU USE OR REFER TO Emitter - Base (EB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	90	2	2	52	20	8	16
6 409 62-06 DO YOU USE OR REFER TO COLLECTOR - BASE (CB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	89	2	2	50	20	8	16

PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISK	SPC						
	151	800	801	802	803	804	805
6 410 62-07 DO YOU USE OR REFER TO Emitter - Collector OR (EC)	88	2	2	51	18	4	16
RESISTANCE MEASUREMENTS							2
6 411 62-08 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE	34	1	1	21	9	0	7
PHYSICAL BARRIER WIDTH OF THE Emitter - BASE JUNCTION							0
6 412 62-09 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE	33	1	1	21	9	0	7
PHYSICAL BARRIER WIDTH OF THE COLLECTOR - BASE JUNCTION							12
6 413 62-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE	64	1	1	35	13	8	10
TRANSISTOR STRUCTURE (COLLECTOR, BASE AND Emitter)							2
6 414 62-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (ICBO) IN A	45	0	0	25	7	0	5
TRANSISTOR							0
6 415 62-12 DO YOU USE OR REFER TO TRANSISTOR SCHEMATIC SYMBOLS	91	4	7	61	35	15	30
6 416 62-13 DO YOU USE OR REFER TO TRANSISTOR NOTATION SUCH AS	92	3	7	61	33	15	27
01, 02, 03, ETC							12
6 417 62-14 DO YOU USE OR REFER TO TRANSISTOR SUBSTITUTION	86	1	1	46	16	8	10
INFORMATION							4
6 418 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE	43	0	1	26	9	8	1
TRANSISTOR BASE CURRENT IS NORMALLY SIGNIFICANTLY							0
SMALLER THAN THE Emitter CURRENT IE (USUALLY 10 BEING 2 TO							0
8 PERCENT OF IE)							0
6 419 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF Emitter	57	1	2	40	11	0	7
BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR							2
TRANSISTORS							15
6 420 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT	42	0	1	20	5	0	3
(ICBO) IN A TRANSISTOR INCREASES AS TEMPERATURE INCREASES							0
6 421 62-18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC	29	1	1	26	5	0	2
CURVES							0
6 422 62-19 DO YOU USE OR REFER TO BETA TRANSISTOR GAINS	34	0	0	22	7	0	1
(ICBO) IN A TRANSISTOR INCREASES AS TEMPERATURE INCREASES							0
6 423 62-20 DO YOU USE OR REFER TO ALPHA TRANSISTOR GAINS	28	0	0	13	7	0	1
6 424 62-21 DO YOU USE OR REFER TO GAMMA TRANSISTOR GAINS	25	0	0	11	7	0	1
6 425 62-22 DO YOU CALCULATE BETA TRANSISTOR GAINS	14	0	0	11	5	0	0
6 426 62-23 DO YOU CALCULATE ALPHA TRANSISTOR GAINS	12	0	0	7	9	0	0
6 427 62-24 DO YOU CALCULATE GAMMA TRANSISTOR GAINS	9	0	0	5	4	0	0
6 428 63-01 DO YOU WORK WITH TRANSISTOR AMPLIFIERS IN YOUR	86	1	2	45	22	15	20
PRESENT JOB							6
6 429 63-02 DO YOU INSPECT TRANSISTOR AMPLIFIERS	87	1	1	39	16	8	19
6 430 63-03 DO YOU ALIGN OR ADJUST TRANSISTOR AMPLIFIERS	81	1	1	32	11	15	13
6 431 63-04 DO YOU TROUBLESHOOT TO THE AMPLIFIER CIRCUIT LEVEL	86	1	1	38	15	8	19
6 432 63-05 DO YOU REMOVE OR REPLACE THE COMPLETE AMPLIFIER	86	1	1	36	11	8	10
6 433 63-06 DO YOU REMOVE OR REPLACE AMPLIFIER COMPONENTS	74	1	2	37	22	15	16
6 434 63-07 DO YOU REMOVE OR REPLACE AMPLIFIER COMPONENTS	68	0	0	39	7	8	10
6 435 63-08 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN	48	1	0	22	5	0	3
COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN BASE							0
CURRENT							0
6 436 63-09 DO YOU USE OR REFER TO (COMMON Emitter) THE	30	1	0	10	5	0	1
CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN							0
COLLECTOR CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN							0
BASE CURRENT							0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
) 6 437 63-10 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE CURRENT	49	1	0	21	7	0	3	0	0	0
) 6 438 63-11 DO YOU USE OR REFER TO (COMMON Emitter) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT	27	1	0	10	2	0	0	0	0	0
) 6 439 63-12 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL	47	1	0	21	7	0	3	0	4	0
) 6 440 63-13 DO YOU USE OR REFER TO COMMON Emitter THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN BASE CURRENT WHICH RESULTS FROM A SPECIFIC INPUT SIGNAL	29	0	0	12	6	0	0	0	0	0
) 6 441 63-14 DO YOU USE THE LOAD-LINE METHOD OF ANALYSIS IN YOUR CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A LOAD-LINE ON A TRANSISTOR CHARACTERISTIC CURVE)	12	0	0	4	4	0	0	0	0	0
) 6 442 63-15 DO YOU USE OR REFER TO THE OPERATING POINT Q (QUIESCENT POINT) FOR A TRANSISTOR	25	0	0	13	5	0	1	0	0	0
) 6 443 63-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR A PARTICULAR TRANSISTOR	14	0	0	3	4	0	1	0	0	0
) 6 444 63-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON Emitter CONFIGURATION	62	1	0	31	15	8	8	0	15	0
) 6 445 63-18 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON Emitter CONFIGURATION	45	0	0	24	15	0	4	0	8	0
) 6 446 63-19 DO YOU MEASURE POWER GAIN USED IN THE COMMON Emitter CONFIGURATION	40	0	0	21	15	0	5	0	8	0
) 6 447 63-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE-EMITTER VOLTAGE INTO THE CHANGE THE BASE COLLECTOR VOLTAGE TO DETERMINE THE VOLTAGE GAIN	18	0	0	6	4	0	1	0	0	0
) 6 448 63-21 DO YOU CALCULATE THE CURRENT GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR CURRENT TO DETERMINE THE CURRENT GAIN	16	0	0	9	4	0	1	0	0	0
) 6 449 63-22 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA THAT IS, DO YOU MULTIPLY THE CURRENT GAIN TIMES THE VOLTAGE GAIN TO DETERMINE THE POWER GAIN	13	0	0	6	2	0	1	0	0	0
) 6 450 63-23 DO YOU NEED TO KNOW THAT MORE COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS TEMPERATURE INCREASES (THIS AFFECTS THE STATIC OPERATING POINT (Q0) OF THE TRANSISTOR)	23	0	0	7	2	0	0	0	0	0
) 6 451 63-24 DO YOU COMPUTE THE STATIC OPERATING POINT (Q0) OF A TRANSISTOR AT DIFFERENT TEMPERATURES	11	0	0	3	4	0	1	0	0	0
) 6 452 63-25 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THE Emitter (SHAMING) RESISTOR STABILIZATION	51	0	0	17	4	0	3	0	0	0
) 6 453 63-26 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH SELF-BIAS STABILIZATION	50	0	1	17	5	0	4	0	0	0

## PCI MRS RESPONDING 'YES' BY DAESIC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-1SK	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	100	801	802	803	804	805	806
6 459 63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THERMISTOR STABILIZATION	52	0	0	15	5	0	9	0
6 455 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH FORWARD BIAS DIODE STABILIZATION	52	0	1	17	5	0	8	0
6 456 63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH REVERSE BIAS DIODE STABILIZATION	51	0	1	17	7	0	8	0
6 457 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH DOUBLE DIODE STABILIZATION	41	0	1	12	7	0	5	0
6 458 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM Emitter ISAMPLING RESISTOR STABILIZATION	52	0	0	16	5	0	5	0
6 459 63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM SELF-BIAS STABILIZATION	52	0	1	17	5	0	5	0
6 460 63-33 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THERMISTOR STABILIZATION	52	0	0	13	7	0	6	0
6 461 63-34 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM FORWARD BIAS DIODE STABILIZATION	52	0	1	16	5	0	7	0
6 462 63-35 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM REVERSE BIAS DIODE STABILIZATION	51	0	1	16	7	0	7	0
6 463 63-36 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM DOUBLE DIODE STABILIZATION	41	0	1	19	5	0	6	0
6 464 63-37 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR CIRCUITS	56	0	1	26	11	0	6	0
6 465 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF AMPLITUDE DISTORTION	68	0	0	25	9	0	7	0
6 466 63-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS	61	0	0	25	9	0	6	0
6 467 63-40 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS	49	0	0	19	7	0	7	0
6 468 63-41 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION	48	0	0	17	5	0	5	0
6 469 63-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF FREQUENCY DISTORTION	59	0	0	21	7	0	7	0
6 470 63-43 DO YOU NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE CIRCUIT CAUSED BY CHANGING Emitter RESISTANCE FOR TRANSISTOR AMPLIFIERS IN THE COMMON COLLECTOR CONFIGURATION	37	0	0	13	2	0	1	0
6 471 63-44 DO YOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	47	0	1	17	5	0	9	0
6 472 63-45 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS	39	0	1	7	5	0	9	0
6 473 63-46 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	76	1	2	31	13	0	9	0
6 476 63-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY CIRCUITS	59	0	1	17	9	0	3	0
6 475 63-48 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS	52	0	1	15	5	0	9	0

## PCT MEMBERS RESPONDING "YES" BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TASK	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805	806	807
6 476 H2-49 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED AMPLIFIERS	67	0	1	23	9	8	9	0	4
H 477 H1-01 DO YOU USE OR REFER TO VARACTORS	99	2	1	19	15	0	3	0	12
) H 478 H1-02 DO YOU USE OR REFER TO TUNNEL DIODES	36	1	2	23	16	0	1	0	0
) H 479 H1-03 DO YOU USE OR REFER TO FIELD-EFFECT TRANSISTORS (FET)	60	3	7	40	27	15	7	5	12
) H 480 H1-04 DO YOU USE OR REFER TO UNIJUNCTION TRANSISTORS	58	3	7	26	13	8	7	5	8
) H 481 H1-05 DO YOU USE OR REFER TO ZENER DIODES	92	13	17	62	40	23	30	19	38
) H 482 H1-06 DO YOU USE OR REFER TO INTEGRATED CIRCUITS	88	18	26	64	55	15	30	17	31
) H 483 H2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES	88	61	40	76	65	77	79	90	73
) H 484 H2-02 DO YOU INSPECT POWER SUPPLIES	87	30	26	57	69	77	71	85	73
) H 485 H2-03 DO YOU CLEAN POWER SUPPLIES	84	26	18	42	51	77	50	62	38
) H 486 H2-04 DO YOU ALIGN OR ADJUST POWER SUPPLIES	85	24	20	60	73	77	70	90	58
) H 487 H2-05 DO YOU TROUBLESHOOT TO POWER SUPPLY CIRCUIT LEVEL	87	14	13	50	65	69	68	77	69
) H 488 H2-06 DO YOU TROUBLESHOOT TO POWER SUPPLY COMPONENTS	88	15	8	42	47	69	63	77	58
) H 489 H2-07 DO YOU REMOVE OR REPLACE COMPLETE POWER SUPPLIES	77	23	18	61	85	77	80	90	73
) H 490 H2-08 DO YOU REMOVE OR REPLACE POWER SUPPLY COMPONENTS	86	13	7	42	49	77	55	71	46
) H 491 H2-09 YOU WORK WITH HALF-WAVE RECTIFIERS	77	8	7	38	33	23	45	56	38
) H 492 H2-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER THAN	81	7	5	40	35	31	48	58	42
) BRIDGE RECTIFIERS									
) H 493 H2-11 DO YOU WORK WITH BRIDGE RECTIFIERS	87	12	6	45	40	31	49	56	50
) H 494 H2-12 DO YOU WORK WITH THREE-PHASE RECTIFIERS	29	7	2	19	25	31	40	46	35
) H 495 H2-13 DO YOU USE OR REFER TO INPUT VOLTAGE	67	24	16	51	49	38	65	73	77
) H 496 H2-14 DO YOU USE OR REFER TO INPUT FREQUENCY	62	21	12	39	39	23	37	42	35
) H 497 H2-15 DO YOU USE OR REFER TO PEAK OUTPUT VOLTAGE	78	13	12	46	49	31	57	63	58
) H 498 H2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE	77	10	9	41	51	31	60	69	65
) H 499 H2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE	73	6	3	34	55	23	56	71	38
) H 500 H2-18 DO YOU USE OR REFER TO ROLL-OFF FREQUENCY	70	6	2	26	33	15	35	38	31
) H 501 H2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE	54	7	2	22	20	15	28	23	23
) H 502 H2-20 DO YOU USE OR REFER TO SHAPE OF OUTPUT WAVEFORMS	76	8	8	65	35	23	48	46	50
) H 503 H2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE	77	9	10	45	44	23	56	60	65
) H 504 H2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE FILTERS	82	6	3	41	25	15	30	37	27
) H 505 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE FILTERS	74	6	3	31	27	15	27	29	27
) H 506 H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE INPUT L-TYPE FILTERS	65	5	2	28	16	8	20	21	19
) H 507 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE INPUT L-TYPE FILTERS	61	5	2	24	16	8	19	19	19
) H 508 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY C. PI-TYPE FILTERS	60	4	2	21	15	8	16	17	15
) H 509 H2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE FILTERS	62	5	2	24	15	8	16	17	15
) H 510 H2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER	21	11	11	22	29	15	92	98	31
) H 511 H2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF FILTER WITH A DIFFERENT TYPE FILTER	13	3	0	7	4	0	0	0	0
) H 512 H3-01 DO YOU WORK WITH OSCILLATORS IN YOUR PRESENT JOB	65	6	3	50	25	15	38	50	27

## PCT MEMBERS RESPONDING 'YES' BY DAESG GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC 151	SPC 160	SPC 161	SPC 162	SPC 163	SPC 164	SPC 165	SPC 166	SPC 167
	A01	A02	A03	A04	A05	A06	A07		
) H 513 H3-02 DO YOU INSPECT OSCILLATORS	81	5	2	16	23	24	13	19	
) H 514 H3-03 DO YOU ALIGN OR ADJUST OSCILLATORS	80	4	3	39	20	23	29	40	19
) H 515 H3-04 DO YOU REMOVE OR REPLACE COMPLETE OSCILLATORS	64	4	2	37	22	23	30	42	23
) H 516 H3-05 DO YOU REMOVE OR REPLACE OSCILLATOR COMPONENTS	78	1	1	24	7	8	17	21	15
) H 517 H3-06 DO YOU TROUBLESHOOT TO OSCILLATOR CIRCUIT LEVEL	81	2	2	31	16	15	30	42	19
) H 518 H3-07 DO YOU TROUBLESHOOT TO OSCILLATOR COMPONENTS	80	1	1	26	7	0	22	31	15
) H 519 H3-08 DO YOU USE OR REFER TO FEEDBACK	77	3	1	31	20	8	27	37	19
) H 520 H3-09 DO YOU USE OR REFER TO FREQUENCY DETERMINING DEVICES (FDD)	60	1	1	32	15	0	19	25	19
) H 521 H3-10 DO YOU USE OR REFER TO AMPLITUDE STABILITY	58	1	1	29	20	0	17	17	15
) H 522 H3-11 DO YOU USE OR REFER TO FREQUENCY STABILITY	70	1	1	39	22	0	23	25	19
) H 523 H3-12 DO YOU USE OR REFER TO DAMPING	61	2	2	18	20	0	17	23	15
) H 524 H3-13 DO YOU USE OR REFER TO REGENERATIVE FEEDBACK	75	1	1	31	20	8	15	21	9
) H 525 H3-14 DO YOU USE OR REFER TO PIEZOELECTRIC EFFECT	33	1	2	22	11	0	3	4	0
) H 526 H3-15 DO YOU USE OR REFER TO CRITICAL DAMPING	31	1	1	7	9	0	6	10	0
) H 527 H3-16 DO YOU USE OR REFER TO UNDER DAMPING	31	1	1	8	7	0	10	10	8
) H 528 H3-17 DO YOU USE OR REFER TO OVER DAMPING	31	1	1	8	9	0	10	10	8
) H 529 H3-18 DO YOU WORK WITH OSCILLATORS WHICH USE LC TANK CIRCUITS AS FDD	64	3	1	22	13	8	16	15	8
) H 530 H3-19 DO YOU WORK WITH OSCILLATORS WHICH USE RC NETWORKS AS FDD	72	3	1	27	15	8	18	23	8
) H 531 H3-20 DO YOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS FDD	74	3	1	33	18	8	30	40	15
) H 532 H3-21 DO YOU WORK WITH OSCILLATORS WHICH USE DON'T REMEMBER WHICH TYPE OF FDD	13	1	3	12	9	15	10	6	12
) H 533 H3-22 DO YOU WORK WITH SERIES HARTLEY SINUSOIDAL OSCILLATORS	50	1	1	16	11	0	8	8	4
) H 534 H3-23 DO YOU WORK WITH SHUNT HARTLEY SINUSOIDAL OSCILLATORS	68	1	1	14	13	0	7	8	0
) H 535 H3-24 DO YOU WORK WITH COLPIT'S SINUSOIDAL OSCILLATORS	52	1	1	19	13	0	9	10	8
) H 536 H3-25 DO YOU WORK WITH CLAPP SINUSOIDAL OSCILLATORS	16	1	1	5	4	0	5	6	0
) H 537 H3-26 DO YOU WORK WITH BUTLER SINUSOIDAL OSCILLATORS	16	1	0	4	9	0	5	6	0
) H 538 H3-27 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF OSCILLATORS	27	2	3	20	15	23	19	23	15
) I 539 II-01 DO YOU WORK WITH MULTIVIBRATORS IN YOUR PRESENT JOB	75	1	2	29	25	0	33	46	15
) I 540 II-02 DO YOU INSPECT WAVE GENERATING OR SHAPING CIRCUITS	70	1	2	23	28	0	29	31	15
) I 541 II-03 DO YOU ALIGN OR ADJUST WAVE GENERATING OR SHAPING CIRCUITS	65	1	2	22	27	0	25	33	15
) I 542 II-04 DO YOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS	59	1	2	18	28	0	20	25	15
) I 543 II-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING CIRCUITS	68	1	2	23	25	0	28	36	15
) I 544 II-06 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING CIRCUITS	68	1	1	20	20	0	25	35	12
) I 545 II-07 DO YOU REMOVE OR REPLACE COMPLETE WAVE GENERATING OR SHAPING CIRCUITS	50	1	2	21	23	0	25	33	15
) I 546 II-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING CIRCUITS	66	1	0	19	11	0	23	31	12
) I 547 II-09 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN LC TANK CIRCUITS	63	1	1	15	20	0	15	17	8

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

SPC SPC SPC SPC SPC SPC SPC  
151 800 801 802 803 805 806 807

I 548 11-10 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN RC NETWORKS	67	1	1	23	22	0	17	21	4
I 549 11-11 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN CRYSTALS	57	1	1	19	24	0	22	31	8
I 550 11-12 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN DON'T REMEMBER WHICH TYPE OF FDD	16	1	1	6	13	0	10	15	4
I 551 11-13 DO YOU WORK WITH ASYMMETRIC MULTIVIBRATORS	61	0	0	26	18	0	8	6	0
I 552 11-14 DO YOU WORK WITH MONOSTABLE MULTIVIBRATORS	63	1	0	27	22	0	13	10	8
I 553 11-15 DO YOU WORK WITH BISTABLE MULTIVIBRATORS	63	1	0	26	22	0	13	8	12
I 554 11-16 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE MULTIVIBRATORS	14	1	2	6	9	0	17	33	0
I 555 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN YOUR PRESENT JOB	79	2	1	26	27	0	30	33	23
I 556 12-02 DO YOU WORK WITH SERIES DIODE LIMITERS	55	1	1	18	22	0	13	10	12
I 557 12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS	51	1	1	16	22	0	11	12	9
I 558 12-04 DO YOU WORK WITH LIMITERS WITH BIAS	48	1	0	14	9	0	12	15	4
I 559 12-05 DO YOU WORK WITH ZENER DIODE LIMITERS	60	1	1	20	16	0	13	12	8
I 560 12-06 DO YOU WORK WITH TRANSISTOR LIMITERS	59	0	1	16	15	0	9	6	3
I 561 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF LIMITERS	17	1	0	7	11	0	16	15	15
I 562 12-08 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS	69	1	0	17	15	0	9	10	0
I 563 12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS WITH BIAS	60	1	0	13	11	0	7	8	4
I 564 12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CLAMPING CIRCUIT	19	1	1	6	13	0	20	21	15
I 565 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH CONTAINS ELECTRON TUBES	67	11	3	23	40	77	73	90	69
I 566 13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD	66	4	2	21	29	77	69	90	50
I 567 13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUBES	65	4	1	19	27	77	57	90	38
I 568 13-04 DO YOU USE MULTIMETERS TO CHECK ELECTRON TUBES	62	4	2	10	18	36	31	58	62
I 569 13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBES	61	4	2	10	22	23	39	42	38
I 570 13-06 DO YOU USE SUBSTITUTION TO CHECK ELECTRON TUBES	65	5	2	15	27	69	55	77	96
I 571 13-07 DO YOU USE OR REFER TO CUTOFF	56	3	1	10	9	0	28	37	23
I 572 13-08 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE RATING	33	2	1	6	7	0	13	21	8
I 573 13-09 DO YOU USE OR REFER TO PEAK CURRENT RATING	35	2	1	7	7	0	17	23	15
I 574 13-10 DO YOU USE OR REFER TO TRANSIT TIME	27	2	0	7	5	0	12	17	8
I 575 13-11 DO YOU USE OR REFER TO PLATE DISSIPATION RATINGS	30	2	0	5	5	0	13	19	4
I 576 13-12 DO YOU USE OR REFER TO SATURATION	55	2	1	12	11	0	23	33	19
I 577 13-13 DO YOU USE OR REFER TO DC PLATE RESISTANCE	41	2	0	8	5	0	20	31	12
I 578 13-14 DO YOU COMPUTE ACTUAL VALUES OF THE DC PLATE RESISTANCE FOR ELECTRON TUBES	16	2	0	2	2	0	0	0	0
I 579 13-15 DO YOU USE OR REFER TO PLATE VOLTAGE	83	5	2	16	28	36	43	56	38
I 580 13-16 DO YOU USE OR REFER TO PLATE CURRENT	65	5	2	15	15	38	50	31	
I 581 13-17 DO YOU USE OR REFER TO GRID VOLTAGE	61	5	2	16	22	38	43	59	38
I 582 13-18 DO YOU USE OR REFER TO GRID CURRENT	64	5	2	18	15	22	37	48	31
I 583 13-19 DO YOU USE OR REFER TO CATHODE VOLTAGE	61	5	2	16	22	38	43	59	38
I 584 13-20 DO YOU USE OR REFER TO CATHODE CURRENT	65	5	2	16	22	38	43	59	38
I 585 13-21 DO YOU USE OR REFER TO THE TRIODE AMPLIFICATION FACTOR (THE AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS THE RATIO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN GRID VOLTAGE)	26	1	0	15	15	23	38	50	31

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SK	SPC 151 800	SPC 801 802	SPC 803 804	SPC 805 806	SPC 807
I 586 13-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE AMPLIFICATION FACTORS	12 1	0 2	2 0	0 0	0 0	0 0
I 587 13-23 DO YOU USE OR REFER TO MULTIGRID (TRIODE, PENTODE, ETC) AMPLIFICATION FACTORS	29 1	0 7	4 0	3 6	0 0	0 0
I 588 13-24 DO YOU USE OR REFER TO ELECTRON TUBE TRANSCONDUCTANCE (G, WHICH IS MEASURED IN MOHS)	18 1	0 6	2 0	1 2	0 0	0 0
I 589 13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE TRANSCONDUCTANCES	11 1	0 2	2 0	1 0	0 0	0 0
I 590 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER CALLED AC PLATE RESISTANCE	15 1	0 3	0 0	2 2	0 0	0 0
I 591 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE RESISTANCE	32 1	0 2	2 0	0 0	0 0	0 0
I 592 13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE CAPACITANCE	28 1	0 7	2 0	1 0	0 0	0 0
I 593 13-29 DO YOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR WORK WITH ELECTRON TUBES	20 1	0 7	0 0	2 0	0 0	0 0
I 594 13-30 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE VOLTAGE FOR A SPECIFIED BIAS	18 1	0 5	0 0	5 0	0 0	0 0
I 595 13-31 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE CURRENT FOR A SPECIFIED BIAS	17 1	0 6	2 0	0 5	0 0	0 0
I 596 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR CUTOFF	21 1	0 6	0 0	6 0	0 0	0 0
I 597 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS	21 1	0 6	0 0	6 0	0 0	0 0
I 598 13-34 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN EFFICIENCY	58 3	1 19	16 8	30 90	23 0	0 0
I 599 13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN EFFICIENCY	38 2	1 9	11 0	19 25	8 0	0 0
I 600 13-36 DO YOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	59 3	1 11	16 31	32 59	12 0	0 0
I 601 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	45 3	1 8	11 15	23 25	31 0	0 0
I 602 13-38 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	56 3	1 8	15 15	26 23	27 0	0 0
I 603 13-39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	20 1	0 5	7 0	3 4	0 0	0 0
I 604 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH AS INPUT CAPACITANCE	11 1	0 1	0 0	2 2	0 0	0 0
I 605 13-41 DO YOU USE OR REFER TO TUBE SOCKET NOTATION SUCH AS MANUALS OR CHARTS	79 9	1 15	27 38	97 63	42 0	0 0
I 606 13-42 DO YOU USE OR REFER TO PIN NUMBERING SYSTEMS IN YOUR PRESENT JOB	83 5	1 17	25 59	97 62	46 0	0 0
I 607 13-43 DO YOU USE OR REFER TO THE TYPE OF MATERIAL OR THE OPERATING TEMPERATURE OF THE EMITTING SURFACE IN THE ELECTRON TUBES YOU WORK ON	17 1	0 2	7 0	6 6	6 0	0 0
I 608 13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL IN YOUR PRESENT JOB	76 2	1 11	13 59	27 90	27 0	0 0
J 609 JI-01 DO YOU WORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUITS IN YOUR PRESENT JOB	79 3	1 13	16 23	49 67	30 0	0 0
J 610 JI-02 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	40 3	1 6	5 0	9 12	8 0	0 0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DI-TSK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
)	J 611 J1-03 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS	34	2	1	2	7	8	8	12	0
)	J 612 J1-04 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	61	2	1	9	13	6	18	21	23
)	J 613 J1-05 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS	41	1	1	3	7	0	10	12	9
)	J 614 J1-06 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED AMPLIFIERS	53	1	1	7	11	0	11	15	9
)	J 615 J2-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE OF AMPLIFIER	23	1	1	9	7	15	21	31	15
)	J 616 J2-01 DO YOU WORK WITH GAS TUBES (HOT CATHODE OR COLD CATHODE)	65	6	1	10	22	31	46	63	38
)	J 617 J2-02 DO YOU WORK WITH CATHODE-RAY TUBES	66	7	5	21	77	69	67	87	62
)	J 618 J2-03 DO YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM POWER TUBES	22	1	0	5	5	15	6	9	8
)	J 619 J2-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM POWER TUBES ARE USED	31	2	0	9	5	31	13	17	12
)	J 620 J2-05 DO YOU USE OR REFER TO THE CHARACTERISTICS OF TRIATRONS	11	2	1	6	27	15	48	63	50
)	J 621 J2-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH TRIATRONS ARE USED	11	3	1	3	31	31	61	85	50
)	J 622 J2-07 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTRON GUNS OF CATHODE-RAY TUBES (CRT)	82	9	2	19	29	59	46	58	46
)	J 623 J2-08 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROMAGNETIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES (CRT)	82	2	1	13	36	46	36	40	35
)	J 624 J2-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES (CRT)	73	3	1	12	27	30	35	42	31
)	J 625 J2-10 DO YOU USE OR REFER TO PHOSPHOR SCREENS	77	2	0	19	31	54	38	48	42
)	J 626 J2-11 DO YOU USE OR REFER TO AQUADIC COATINGS	76	2	1	8	29	66	17	21	15
)	J 627 J2-12 DO YOU USE OR REFER TO ELECTRON OPTICS	45	1	0	8	24	0	8	12	0
)	J 628 J2-13 DO YOU USE OR REFER TO PERSISTENCE	48	1	0	8	31	62	21	15	31
)	J 629 J2-14 DO YOU USE OR REFER TO DECAY TIMES	37	1	0	9	20	0	11	12	12
)	J 630 J2-15 DO YOU USE OR REFER TO FLUORESCENCE	69	1	1	9	20	8	17	21	15
)	J 631 J2-16 DO YOU USE OR REFER TO PHOSPHORESCENCE	56	1	0	12	20	8	19	23	23
)	J 632 J3-01 DO YOU WORK ON TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB	66	9	3	36	56	15	77	90	81
)	J 633 J3-02 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS	33	5	1	25	22	8	67	90	77
)	J 634 J3-03 DO YOU PERFORM TASKS ON FREQUENCY MIXERS	33	6	0	25	31	0	57	75	62
)	J 635 J3-04 DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS IN YOUR WORK WITH TRANSMIT OR RECEIVE SYSTEMS	34	3	0	25	29	0	41	62	38
)	J 636 J3-05 DO YOU PERFORM TASKS ON REACTANCE MODULATORS	18	2	0	13	18	0	22	25	27
)	J 637 J3-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS	27	6	0	19	25	0	29	30	27
)	K 638 K1-01 DO YOU WORK ON AN TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB	34	1	1	10	9	0	9	6	19
)	K 639 K1-02 DO YOU INSPECT AN TRANSMIT OR RECEIVE SYSTEMS	33	1	0	7	7	0	5	9	12
)	K 640 K1-03 DO YOU CLEAN AN TRANSMIT OR RECEIVE SYSTEMS	30	1	0	7	9	0	3	2	12
)	K 641 K1-04 DO YOU ALIGN OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS	32	1	0	9	9	0	5	2	12

## PCI MBRs RESPONDING 'YES' BY DAFSC GROUPS

AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISM	SPC						
	151	800	801	802	803	804	805
K 642 K1-05 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE SYSTEMS	32	1	0	9	9	0	5
K 643 K1-06 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE SYSTEMS	32	1	0	8	9	0	5
K 644 K1-07 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE SYSTEMS	27	1	0	9	7	0	5
K 645 K1-08 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE SYSTEMS	30	1	0	8	9	0	6
K 646 K1-09 DO YOU PERFORM TASKS ON RF OSCILLATORS	32	1	0	7	9	0	6
K 647 K1-10 DO YOU PERFORM TASKS ON RF AMPLIFIERS	33	1	1	8	9	0	6
K 648 K1-11 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	36	0	0	8	8	0	2
K 649 K1-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	32	1	0	7	5	0	4
K 650 K1-13 DO YOU PERFORM TASKS ON LOCAL OSCILLATORS	39	1	0	8	7	0	8
K 651 K1-14 DO YOU PERFORM TASKS ON IF AMPLIFIERS	33	1	0	7	7	0	6
K 652 K1-15 DO YOU PERFORM TASKS ON DETECTORS	33	1	0	8	9	0	7
K 653 K1-16 DO YOU PERFORM TASKS ON DON'T REMEMBER WHICH AM STAGE	6	0	0	2	2	0	0
K 654 K1-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION IN TRANSMITTERS	16	0	0	4	5	0	3
K 655 K1-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS	16	0	0	6	7	0	4
K 656 K1-19 DO YOU USE OR REFER TO SENSITIVITY OF RECEIVERS	28	1	0	8	11	0	9
K 657 K1-20 DO YOU USE OR REFER TO SELECTIVITY OF RECEIVERS	29	1	0	8	7	0	9
K 658 K1-21 DO YOU USE OR REFER TO 2ND HARMONIC DISTORTION	16	1	0	5	8	0	0
K 659 K1-22 DO YOU USE OR REFER TO BANDPASS DISTORTION	25	0	0	6	8	0	2
K 660 K1-23 DO YOU USE OR REFER TO SQUARE LAW DISTORTION	9	0	0	2	2	0	0
K 661 K1-24 DO YOU USE OR REFER TO CO-CHANNEL INTERFERENCE	26	0	0	4	2	0	3
K 662 K1-25 DO YOU USE OR REFER TO IMAGE FREQUENCIES IN RECEIVERS	28	0	0	9	7	0	2
K 663 K1-26 DO YOU USE OR REFER TO SIGNAL TO IMAGE RATIOS OR IMAGE REJECTION RATIOS	17	0	0	3	7	0	3
K 664 K1-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AN TRANSMITTER SCHEMATIC DIAGRAMS	21	1	0	3	9	0	9
K 665 K1-28 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AN RECEIVER SCHEMATIC DIAGRAMS	33	1	0	8	9	0	10
K 666 K2-01 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB	33	2	1	33	16	0	17
K 667 K2-02 DO YOU INSPECT FM TRANSMIT OR RECEIVE SYSTEMS	33	2	1	28	15	0	16
K 668 K2-03 DO YOU ALIGN FM TRANSMIT OR RECEIVE SYSTEMS	32	2	1	23	15	0	12
K 669 K2-04 DO YOU ALIGN FM TRANSMIT OR RECEIVE SYSTEMS	31	1	1	28	15	0	15
K 670 K2-05 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE SYSTEMS	32	2	0	25	16	0	17
K 671 K2-06 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE SYSTEMS	32	1	0	23	15	0	16
K 672 K2-07 DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE SYSTEMS	28	2	0	24	15	0	16
K 673 K2-08 DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE SYSTEMS	30	1	0	21	15	0	16
K 674 K2-09 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	39	0	0	19	2	0	5
K 675 K2-10 DO YOU PERFORM TASKS ON FREQUENCY MULTIPLIERS	27	0	0	20	5	0	10

## PCT MEMBERS RESPONDING 'YES' BY DAFSC GROUPS

AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

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TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TASK	SPC								
	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805		
K 676 K2-11 DO YOU PERFORM TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS)	31	1	0	17	9	0	7	6	4
K 677 K2-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	30	1	0	19	9	0	12	12	12
K 678 K2-13 DO YOU PERFORM TASKS ON RF AMPLIFIERS	30	1	0	21	9	0	16	17	15
K 679 K2-14 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS	30	1	0	19	9	0	15	19	12
K 680 K2-15 DO YOU PERFORM TASKS ON IF AMPLIFIERS	32	1	0	20	15	0	17	19	15
K 681 K2-16 DO YOU PERFORM TASKS ON LIMITERS	31	1	0	18	5	0	11	15	0
K 682 K2-17 DO YOU PERFORM TASKS ON FREQUENCY DISCRIMINATORS	30	1	0	29	13	0	15	17	12
K 683 K2-18 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS	20	2	0	18	15	0	17	17	19
K 684 K2-19 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS	32	1	0	26	16	0	16	15	19
K 685 K3-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL (BASE 8) NUMBERS	10	0	1	31	38	0	9	2	4
K 686 K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2)	16	0	2	36	42	0	7	0	0
K 687 K3-03 DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS	8	0	1	31	40	0	10	0	0
K 688 K3-04 DO YOU CONVERT OCTAL NUMBERS TO BINARY NUMBERS	7	0	0	27	35	0	8	0	0
K 689 K3-05 DO YOU CONVERT BINARY NUMBERS TO DECIMAL NUMBERS	12	1	1	37	42	0	9	2	6
K 690 K3-06 DO YOU CONVERT BINARY NUMBERS TO OCTAL NUMBERS	7	0	0	28	38	0	8	0	0
K 691 K3-07 DO YOU ADD BINARY NUMBERS TO GET A SUM	12	2	2	26	33	0	7	2	9
K 692 K3-08 DO YOU SUBTRACT BINARY NUMBERS USING THE END-AROUND - CARRY METHOD	9	1	1	17	31	0	4	0	0
K 693 K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT SUBTRACTION METHOD	11	2	1	20	31	0	6	2	0
K 694 K3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM	8	1	0	19	27	0	5	0	0
L 695 L1-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO LOGIC FUNCTIONS	29	6	7	31	36	0	9	0	19
L 696 L1-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS	18	3	3	19	27	0	9	0	9
L 697 L1-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	17	2	3	19	25	0	9	0	9
L 698 L1-04 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS WITH STATE INDICATORS	17	2	3	19	25	0	9	0	9
L 699 L1-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS ON GATES	16	2	3	19	25	0	3	0	0
L 700 L1-06 DO YOU USE OR REFER TO TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	21	4	6	24	35	0	3	0	0
L 701 K1-07 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	20	4	6	24	35	0	3	0	0
L 702 K1-09 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	21	6	6	23	36	0	9	0	9
L 703 L1-09 DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS	21	3	5	23	36	0	3	0	0
L 704 L1-10 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR AND GATES	27	9	7	29	40	0	6	0	0
L 705 L1-11 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR OR GATES	27	9	7	29	40	0	6	0	0
L 706 L1-12 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR GATES	27	9	7	30	40	0	5	0	0

## PCI MBRs RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DAFSK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
L 707 L1-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR GATES	25	4	6	28	40	0	6	0	0

L 708 L2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC CIRCUITS

L 709 L2-02 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DTL) CIRCUITS

L 710 L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS

L 711 L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS

L 712 L2-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES COUPLED TRANSISTOR LOGIC (DTL) CIRCUIT GATES

L 713 L2-06 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS

L 714 L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN ALGEBRA

L 715 L2-08 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DTL) CIRCUIT GATES

L 716 L2-09 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS

L 717 L2-10 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE

L 718 L2-11 DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS

L 719 L2-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS

L 720 L2-13 DO YOU WORK WITH ASTABLE (FREE RUNNING) MULTIVIBRATORS

L 721 L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS

L 722 L2-15 DO YOU WORK WITH MONOSTABLE ('ONE-SHOT') MULTIVIBRATORS

L 723 L2-16 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR SYMBOLS

L 724 L2-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR SYMBOLS

L 725 L2-18 DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS

L 726 L2-19 DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES

L 727 L2-20 DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP LOGIC SYMBOLS

L 728 L2-21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS

L 729 L2-22 DO YOU MEASURE OUTPUT WAVESHAPES OF LOGIC CIRCUITS SCHEMATIC DIAGRAMS

L 730 L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS

L 731 L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS

L 732 L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC SYMBOLS

## PCI MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
) L 733 L3-01 DO YOU WORK WITH DIGITAL COUNTERS IN YOUR PRESENT JOB	28	16	21	91	36	0	23	21	38
) L 734 L3-02 DO YOU USE OR REFER TO UP-COUNTERS	21	1	4	29	25	0	9	10	4
) L 735 L3-03 DO YOU USE OR REFER TO DOWN-COUNTERS	27	1	8	26	25	0	8	6	9
) L 736 L3-04 DO YOU USE OR REFER TO SERIAL COUNTERS	19	4	2	28	22	0	5	6	9
) L 737 L3-05 DO YOU USE OR REFER TO PARALLEL COUNTERS	15	1	1	28	16	0	3	2	8
) L 738 L3-06 DO YOU USE OR REFER TO RING COUNTERS	14	0	1	15	9	0	3	6	0
) L 739 L3-07 DO YOU USE OR REFER TO DECADE COUNTERS	18	7	6	24	16	0	10	8	23
) L 740 L3-08 DO YOU USE OR REFER TO COUNT DETECT CIRCUITS	18	1	1	19	9	0	7	2	15
) L 741 L3-09 DO YOU USE OR REFER TO DOWN CLOCKS	19	1	8	19	27	0	4	2	0
) L 742 L3-10 DO YOU USE OR REFER TO UP CLOCKS	18	1	5	21	27	0	3	2	0
) L 743 L3-11 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS	18	0	3	18	16	0	3	0	4
) L 744 L3-12 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS	20	0	3	16	15	0	2	0	0
) L 745 L3-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF DECADE COUNTERS	15	3	2	19	15	0	6	2	19
) L 746 L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF RING COUNTERS	12	0	0	14	11	0	1	0	0
) L 747 L3-15 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTER	14	0	0	18	18	0	3	2	4
) L 748 L3-16 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	14	1	0	22	22	0	3	0	0
) L 749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF COUNTERS	15	1	0	21	18	0	9	2	19
) L 750 L3-18 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS	13	1	1	18	11	0	3	6	0
) L 751 L3-19 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS	12	0	1	13	11	0	2	2	0
) L 752 L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTERS	10	0	0	12	11	0	2	2	0
) L 753 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR OTHER TYPES OF COUNTERS	11	1	1	19	13	0	2	2	0
) L 754 L3-22 DO YOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS OF DECADE COUNTERS	8	0	0	7	9	0	1	2	0
) L 755 L3-23 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP IN RING COUNTERS FOR SPECIFIC INPUT PULSES	12	0	1	13	9	0	2	2	9
) L 756 L3-24 DO YOU DETERMINE THE APPROPRIATE AND GATE NECESSARY IN COUNT DETECT CIRCUITS TO INDICATE A REQUIRED COUNT	14	0	2	19	0	6	3	2	6
) M 757 M1-01 DO YOU WORK WITH SAWTOOTH WAVE GENERATORS	76	4	7	31	99	23	50	62	38
) M 758 M1-02 DO YOU WORK WITH TRAPEZOIDAL WAVE GENERATORS	63	1	0	11	29	8	16	15	15
) M 759 M1-03 DO YOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE FEEDBACK	60	3	1	17	35	15	23	25	15
) M 760 M1-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT REGENERATIVE FEEDBACK	51	1	2	19	25	15	23	23	15

## PCT MBRS RESPONDING "YES" BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DO-1SK	SPC 151 800	SPC 801	SPC 802	SPC 803	SPC 804 AND 805	SPC 806	SPC 807
) M 761 M1-05 DO YOU WORK WITH BLOCKING OSCILLATORS	67	3	1	14	51	15	49	62
) M 762 M1-06 DO YOU USE OR REFER TO RISE TIME	62	4	6	43	64	31	60	75
) M 763 M1-07 DO YOU USE OR REFER TO FALL OR FLYBACK TIME	67	4	2	36	47	31	56	73
) M 764 M1-08 DO YOU USE OR REFER TO SWEEP TIME	71	15	17	43	58	38	64	79
) M 765 M1-09 DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SAWTOOTH	58	7	5	17	45	31	44	58
) M 766 M1-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAWTOOTH	56	4	9	17	38	31	41	38
) M 767 M1-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAWTOOTH	61	3	3	20	38	31	49	44
) M 768 M1-12 DO YOU USE OR REFER TO GATE LENGTH OF SAWTOOTH	41	4	2	12	38	31	46	46
) M 769 M2-01 DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB	75	40	45	66	31	23	31	38
) M 770 M2-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL	75	27	30	58	31	23	32	40
) M 771 M2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS	62	29	31	35	29	15	28	37
) ADJUSTING, ALIGNING, OR CALIBRATING WHILE USING SIGNAL								
) GENERATORS								
) M 772 M2-04 DO YOU TROUBLESHOOT AN ASSEMBLY OR SUBASSEMBLY	58	15	20	31	18	15	26	38
) WHILE USING SIGNAL GENERATORS								
) M 773 M2-05 DO YOU TROUBLESHOOT THE SMALLEST REPLACEABLE	55	6	7	22	9	8	20	33
) COMPONENT WHILE USING SIGNAL GENERATORS								
) M 774 M2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS	67	18	29	46	20	0	7	2
) M 775 M2-07 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH	36	2	6	41	15	0	10	6
) AS SQUARE WAVE, TRIANGLE, PULSE, OR SPIKE								
) M 776 M2-08 DO YOU USE RF GENERATORS LESS THAN 1,000 MHZ	36	9	12	43	20	8	9	8
) M 777 M2-09 DO YOU USE RF GENERATORS GREATER THAN 1,000 MHZ	27	13	7	36	22	8	18	23
) M 778 M2-10 DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION	58	10	8	45	25	8	18	21
) GENERATORS								
) M 779 M3-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING	45	19	26	25	29	77	54	71
) WITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS OR								
) GENERATORS								
) M 780 M3-02 DO YOU INSPECT MOTORS	49	12	12	21	29	77	50	71
) M 781 M3-03 DO YOU CLEAN OR LUBRICATE MOTORS	48	11	6	20	24	77	39	62
) M 782 M3-04 DO YOU OPERATE MOTORS	91	18	17	23	20	77	51	50
) M 783 M3-05 DO YOU REMOVE OR REPLACE COMPLETE MOTORS	43	5	1	21	25	77	51	71
) M 784 M3-06 DO YOU REMOVE OR REPLACE MOTOR PARTS	27	5	0	11	11	23	26	40
) M 785 M3-07 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE	43	7	6	21	29	77	53	71
) CONNECTIONS OF MOTORS								
) M 786 M3-08 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF MOTORS	28	4	0	10	9	38	17	29
) M 787 M3-09 DO YOU PERFORM ANY TASKS ON FIELD COILS	15	1	0	7	9	23	6	8
) M 788 M3-10 DO YOU PERFORM ANY TASKS ON ARMATURES	19	1	1	7	9	23	10	12
) M 789 M3-11 DO YOU PERFORM ANY TASKS ON ROTORS	20	0	1	8	9	31	10	13
) M 790 M3-12 DO YOU PERFORM ANY TASKS ON BRUSHES	30	1	1	11	9	38	18	23
) M 791 M3-13 DO YOU PERFORM ANY TASKS ON SLIP RINGS	24	0	0	8	9	23	13	25
) M 792 M3-14 DO YOU PERFORM ANY TASKS ON COMMUTATORS	20	0	1	7	23	9	12	12
) M 793 M3-15 DO YOU PERFORM ANY TASKS ON POLE PIECES	15	0	0	5	5	23	9	12

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISM	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
) M 794 M3-16 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OF THE FORCE OR TORQUE CREATED BY A MOTOR	13	0	0	3	9	0	10	15	8	92
) M 795 M3-17 DO YOU DETERMINE OR MEASURE THE DIRECTION OF THE MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR	15	0	0	4	11	0	20	31	19	31
) M 796 M3-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE IN MOTORS	11	0	1	3	5	0	8	10	12	31
) M 797 M3-19 DO YOU WORK WITH SYNCHRONOUS MOTORS	39	1	1	13	16	46	37	50	42	44
) M 798 M3-20 DO YOU WORK WITH INDUCTION MOTORS	27	3	3	12	18	31	33	48	31	31
) M 799 M3-21 DO YOU WORK WITH SPLIT-PHASE MOTORS	15	2	6	6	9	23	18	19	19	31
) M 800 M3-22 DO YOU WORK WITH SOME COMBINATION OF THE ABOVE MOTORS	29	4	9	19	22	38	32	48	31	31
) M 801 M3-23 DO YOU INSPECT GENERATORS	9	16	20	9	25	38	31	44	31	27
) M 802 M3-24 DO YOU CLEAN OR LUBRICATE GENERATORS	8	7	3	7	11	31	22	31	27	31
) M 803 M3-25 DO YOU OPERATE GENERATORS	10	18	23	12	13	31	30	40	31	31
) M 804 M3-26 DO YOU REMOVE OR REPLACE COMPLETE GENERATORS	7	9	2	7	16	31	37	52	38	38
) M 805 M3-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS	5	2	0	3	7	8	10	13	4	42
) M 806 M3-28 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS OF GENERATORS	8	4	9	7	18	38	37	48	42	42
) M 807 M3-29 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF GENERATORS	6	2	0	3	5	8	5	8	0	0
) N 808 M1-01 DO YOU WORK WITH METERS IN YOUR PRESENT JOB	82	53	60	78	71	69	77	67	77	77
) N 809 M1-02 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF PERMANENT MAGNETS	28	10	6	22	18	15	16	15	15	15
) N 810 M1-03 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF MOVING COILS	28	10	8	27	28	8	15	15	15	15
) N 811 M1-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF SPIRAL SPRINGS	24	10	5	16	16	8	12	10	15	15
) N 812 M1-05 DO YOU READ METER SCALES	85	50	60	80	76	69	81	92	81	81
) N 813 M1-06 DO YOU EXTEND THE RANGE OF AMMETERS	33	15	12	31	35	8	34	40	27	27
) N 814 M1-07 DO YOU ZERO OHMMETERS	89	51	60	79	76	69	80	90	81	81
) N 815 M1-08 DO YOU ZERO AMMETERS	48	25	28	41	40	15	32	31	27	27
) N 816 M1-09 DO YOU EXTEND THE RANGE OF VOLTMETERS	53	26	25	38	49	67	51	67	51	51
) N 817 M1-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY (EXPRESSED IN UNITS OF OHMS PER VOLT)	53	13	17	35	42	15	39	50	27	27
) N 818 M2-01 DO YOU WORK WITH SATURABLE REACTORS OR MAGNETIC AMPLIFIERS IN YOUR PRESENT JOB	6	1	0	2	7	0	31	38	35	35
) N 819 M2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	4	0	0	1	5	0	28	37	27	27
) N 820 M2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	4	0	0	1	5	0	17	23	15	15
) N 821 M2-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	3	0	0	1	2	0	16	13	15	15
) N 822 M2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	4	0	0	1	5	0	26	33	27	27
) N 823 M2-06 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	4	0	0	1	7	0	30	40	27	27
) N 824 M2-07 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIER OR SATURABLE REACTOR COMPONENTS	3	0	0	1	0	0	11	15	8	8

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SK						
	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805
) N 825 N2-06 DO YOU USE OR REFER TO HYSTERESIS CURVES OR LOOPS	5	0	0	1	2	0	6
) N 826 N2-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT	4	0	0	1	4	0	5
) WAVEFORMS ACROSS REACTOR WINDINGS OR LOAD RESISTORS OF							
) SINGLE WINDING SATURABLE REACTORS							
) N 827 N2-10 DO YOU MEASURE OUTPUT WAVEFORMS ACROSS REACTOR	5	0	0	1	5	0	6
) WINDINGS OR LOAD RESISTORS OF SINGLE WINDING SATURABLE							
) REACTORS							
) N 828 N2-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT	4	0	0	1	7	0	5
) WAVEFORMS FOR MAGNETIC AMPLIFIERS							
) N 829 N2-12 DO YOU USE OR REFER TO COERCIVE FORCE IN SATURABLE	3	0	0	2	0	0	2
) REACTORS							
) N 830 N2-13 DO YOU USE OR REFER TO RESIDUAL MAGNETISM IN	3	0	0	2	0	0	3
) SATURABLE REACTORS							
) N 831 N2-14 DO YOU USE OR REFER TO FLUX DENSITY IN SATURABLE	3	0	0	2	0	0	2
) REACTORS							
) N 832 N2-15 DO YOU USE OR REFER TO POINT OF SATURATION IN	3	0	0	2	2	0	3
) SATURABLE REACTORS							
) N 833 N2-16 DO YOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC	3	0	0	2	5	0	6
) SYMBOLS							
) N 834 N3-01 DO YOU WORK WITH WAVESHAPE CIRCUITS IN YOUR PRESENT	70	1	4	32	51	23	44
) JOB							
) N 835 N3-02 DO YOU USE OR REFER TO TRANSIENT INTERVALS	40	1	1	15	20	8	17
) N 836 N3-03 DO YOU USE OR REFER TO PULSE WIDTH (PWL)	66	1	3	27	45	23	42
) N 837 N3-04 DO YOU USE OR REFER TO PULSE RECURRENT TIME (PRT)	47	1	3	19	33	23	32
) N 838 N3-05 DO YOU USE OR REFER TO PULSE RECURRENT FREQUENCY	51	1	3	19	47	23	48
) (PRF)							
) N 839 N3-06 DO YOU USE OR REFER TO DIFFERENTIATING CIRCUITS	66	1	0	22	25	0	18
) N 840 N3-07 DO YOU USE OR REFER TO INTEGRATING CIRCUITS	68	0	1	26	36	0	36
) N 841 N3-08 DO YOU USE OR REFER TO TIME CLASSIFICATION OF TIME	46	1	0	18	18	15	16
) CONSTANTS (TC) AS LONG, MEDIUM, OR SHORT							
) N 842 N3-09 DO YOU DETERMINE WHETHER AN LR OR RC CIRCUIT IS	36	0	0	11	13	0	8
) DIFFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT							
) AND OUTPUT CONFIGURATION							
) N 843 N3-10 DO YOU WORK WITH SQUARE WAVE GENERATORS	55	0	2	27	20	8	16
) N 844 N3-11 DO YOU WORK WITH RECTANGULAR WAVE GENERATORS	39	0	1	16	15	6	12
) PRESENT JOB							
) 0 845 01-01 DO YOU WORK ON SINGLE SIDEBAND SYSTEMS IN YOUR	6	1	0	2	0	0	2
) SYSTEMS							
) 0 846 01-02 DO YOU INSPECT SSB TRANSMIT OR RECEIVE SYSTEMS	6	1	0	2	2	0	2
) 0 847 01-03 DO YOU CLEAN SSB TRANSMIT OR RECEIVE SYSTEMS	6	0	0	1	0	0	1
) 0 848 01-04 DO YOU ALIGN SSB TRANSMIT OR RECEIVE SYSTEMS	6	0	0	2	0	0	2
) 0 849 01-05 DO YOU TROUBLESHOOT TO SSB TRANSMIT OR RECEIVE	6	0	0	1	0	0	1
) SYSTEMS							
) 0 850 01-06 DO YOU TROUBLESHOOT TO SSE TRANSMIT OR RECEIVE	6	0	0	1	0	0	2
) COMPONENTS							
) 0 851 01-07 DO YOU REMOVE OR REPLACE SSB TRANSMIT OR RECEIVE	6	1	0	1	0	0	1
) SYSTEMS							
) 0 852 01-08 DO YOU REMOVE OR REPLACE SSE TRANSMIT OR RECEIVE	6	0	0	1	0	0	1
) COMPONENTS							

## PCT MEMBERS RESPONDING 'YES' BY DAESG GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

 TASK GROUP SUMMARY  
 PERCENT MEMBERS PERFORMING

		SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
)	0 853 01-09 DO YOU PERFORM TASKS ON SSB AUDIO AMPLIFIERS	7	0	0	2	0	0	2	4	0
)	0 854 01-10 DO YOU PERFORM TASKS ON SSB BALANCED MODULATORS	6	0	0	2	0	0	2	4	0
)	0 855 01-11 DO YOU PERFORM TASKS ON SSB CARRIER OSCILLATORS	6	0	0	2	0	0	2	4	0
)	0 856 01-12 DO YOU PERFORM TASKS ON SSB LC FILTERS	6	0	0	2	0	0	2	4	0
)	0 857 01-13 DO YOU PERFORM TASKS ON SSB CRYSTAL FILTERS	6	0	0	2	0	0	2	4	0
)	0 858 01-14 DO YOU PERFORM TASKS ON SSB MECHANICAL FILTERS	6	0	0	2	0	0	1	2	0
)	0 859 01-15 DO YOU PERFORM TASKS ON SSB OSCILLATORS	7	0	0	2	0	0	2	4	0
)	0 860 01-16 DO YOU PERFORM TASKS ON SSB MIXERS	7	0	0	2	0	0	2	4	0
)	0 861 01-17 DO YOU PERFORM TASKS ON SSB DRIVERS	6	0	0	1	0	0	1	2	0
)	0 862 01-18 DO YOU PERFORM TASKS ON SSB POWER AMPLIFIERS	6	0	0	2	0	0	2	4	0
)	0 863 01-19 DO YOU PERFORM TASKS ON SSB RF AMPLIFIERS	6	0	0	2	0	0	2	4	0
)	0 864 01-20 DO YOU PERFORM TASKS ON SSB FREQUENCY CONVERTERS	6	0	0	2	0	0	2	4	0
)	0 865 01-21 DO YOU PERFORM TASKS ON SSB IF AMPLIFIERS	6	0	0	2	0	0	2	4	0
)	0 866 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS	6	0	0	2	0	0	2	4	0
)	0 867 01-23 DO YOU PERFORM TASKS ON SSB DON'T REMEMBER WHICH SSB	6	0	0	1	0	0	1	2	0
)	SYSTEM STAGES									
)	0 868 01-24 DO YOU USE OR REFER TO SELECTIVE FADING	8	0	0	1	0	0	1	2	0
)	0 869 01-25 DO YOU USE OR REFER TO PEAK POWER	6	0	0	2	0	0	2	4	0
)	0 870 01-26 DO YOU USE OR REFER TO FREQUENCY STABILITY	6	0	0	2	0	0	2	4	0
)	0 871 01-27 DO YOU USE OR REFER TO RESPONSE CURVES FOR BANDWIDTH FILTERS	6	0	0	2	0	0	2	4	0
)	0 872 01-28 DO YOU CALCULATE PEAK POWER OR EFFECTIVE POWER OF SSB TRANSMITTERS	5	0	0	1	0	0	2	4	0
)	0 873 01-29 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB TRANSMITTER SCHEMATIC DIAGRAMS	6	0	0	2	0	0	2	4	0
)	0 874 01-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB RECEIVER SCHEMATIC DIAGRAMS	6	0	0	2	0	0	2	4	0
)	0 875 02-01 DO YOU WORK ON PULSE MODULATION SYSTEMS IN YOUR PRESENT JOB	15	1	0	23	35	15	43	63	27
)	0 876 02-02 DO YOU INSPECT PULSE MODULATION SYSTEMS	13	0	0	18	31	8	37	60	19
)	0 877 02-03 DO YOU CLEAN PULSE MODULATION SYSTEMS	12	0	0	15	27	8	26	92	15
)	0 878 02-04 DO YOU ALIGN PULSE MODULATION SYSTEMS	12	1	0	16	27	6	34	52	15
)	0 879 02-05 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS	13	0	0	17	38	15	43	63	27
)	0 880 02-06 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS COMPONENTS	12	0	0	16	31	15	37	56	15
)	0 881 02-07 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS	12	1	0	19	36	15	43	63	27
)	0 882 02-08 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS COMPONENTS	12	0	0	14	31	8	31	50	12
)	0 883 02-09 DO YOU WORK ON PULSE-AMPLITUDE MODULATION (PAM) SYSTEMS	10	0	0	13	20	8	19	29	8
)	0 884 02-10 DO YOU WORK ON PULSE-DURATION MODULATION (PDM) SYSTEMS	9	0	0	11	16	8	17	21	12
)	0 885 02-11 DO YOU WORK ON PULSE-POSITION MODULATION (PPM) SYSTEMS	8	0	0	2	7	0	3	6	0
)	0 886 02-12 DO YOU WORK ON PULSE-CODE MODULATION (PCM) SYSTEMS	5	0	0	20	9	0	3	9	0
)	0 887 02-13 DO YOU WORK ON LINE PULSING MODULATION SYSTEMS	5	0	0	2	5	8	9	9	0
)	0 888 02-14 DO YOU WORK ON DONT REMEMBER WHICH TYPE OF MODULATION SYSTEM	6	0	0	2	16	8	22	33	12

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DI-TASK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC AGA	SPC AGB	SPC AGC	SPC AGD	SPC AGE
0 889 02-15 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER SUPPLIES	12	1	0	15	29	15	33	52	15	
) 0 890 02-16 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM CHARGING CHOKES AND CHARGING DIODES	7	0	0	4	13	8	12	19	8	
) 0 891 02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE FORMING NETWORKS	11	0	0	9	29	15	36	60	23	
) 0 892 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TIMERS	10	0	0	10	18	8	28	38	8	
) 0 893 02-19 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM SWITCHES SUCH AS GAS THYRATRONS	9	0	0	1	22	15	34	54	19	
) 0 894 02-20 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE TRANSFORMERS	8	0	0	4	16	15	35	54	19	
) 0 895 02-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TRANSMITTER TUBES	7	0	0	1	22	15	35	52	19	
) 0 896 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RF AMPLIFIERS	11	0	0	9	24	15	35	52	19	
) 0 897 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM FREQUENCY CONVERTERS	10	0	0	12	16	15	37	58	23	
) 0 898 02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM IF AMPLIFIERS	12	0	0	10	31	15	35	58	19	
) 0 899 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DETECTORS	13	0	0	12	22	15	34	58	15	
) 0 900 02-26 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM VIDEO AMPLIFIERS	14	0	0	10	33	15	38	58	12	
) 0 901 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER VIDEO AMPLIFIERS	11	0	0	6	20	15	21	31	8	
) 0 902 02-28 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DON'T REMEMBER WHICH PULSE MODULATION SYSTEM STAGES	3	0	0	3	9	0	12	15	8	
) 0 903 02-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)	10	0	0	10	38	15	53	63	23	
) 0 904 02-30 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRTI)	10	0	0	10	18	8	23	29	15	
) 0 905 02-31 DO YOU USE OR REFER TO PULSE WIDTH (PW)	13	0	0	18	33	15	40	56	27	
) 0 906 02-32 DO YOU USE OR REFER TO PULSE SHAPE	13	0	0	17	27	8	30	49	19	
) 0 907 02-33 DO YOU USE OR REFER TO PEAK POWER	11	1	0	7	26	8	36	50	19	
) 0 908 02-34 DO YOU USE OR REFER TO AVERAGE POWER	12	0	0	7	20	8	33	58	12	
) 0 909 02-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRTI) OR PULSE RECURRENCE FREQUENCY (PRF)	6	0	0	4	18	8	23	33	15	
) 0 910 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRTI) OR PULSE RECURRENCE FREQUENCY (PRF)	8	0	0	7	25	8	38	58	23	
) 0 911 02-37 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS	6	0	0	2	5	8	18	19	12	
) 0 912 02-38 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION TRANSMITTER SCHEMATIC DIAGRAMS	9	0	0	7	31	15	37	52	23	
) 0 913 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS	12	0	0	13	33	15	37	52	23	
) 0 914 03-01 DO YOU WORK WITH ANTENNAS IN YOUR PRESENT JOB	21	33	37	28	75	69	89	92	88	
) 0 915 03-02 DO YOU INSPECT ANTENNAS	18	29	38	22	76	69	88	92	88	

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	151	800	801	802	803	804	805
) 0 916 03-03 DO YOU CLEAN ANTENNAS	15	32	36	18	58	62	66
) 0 917 03-04 DO YOU PHYSICALLY ALIGN ANTENNAS	15	17	21	13	76	54	70
) 0 918 03-05 DO YOU ELECTRICALLY ALIGN ANTENNAS	12	10	6	11	73	46	71
) 0 919 03-06 DO YOU TROUBLESHOOT TWO ANTENNAS	16	15	10	16	73	69	89
) 0 920 03-07 DO YOU TROUBLESHOOT TWO ANTENNA COMPONENTS	10	7	4	12	67	56	70
) 0 921 03-08 DO YOU REMOVE OR INSTALL ANTENNAS	15	29	35	19	82	59	98
) 0 922 03-09 DO YOU REMOVE OR REPLACE COMPONENTS OF ANTENNAS	10	5	19	13	78	54	69
) 0 923 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF E OR ELECTRIC FIELD LINES	8	0	1	8	9	8	9
) 0 924 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF H OR MAGNETIC FIELD LINES	9	0	1	6	9	0	6
) 0 925 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS	8	0	0	0	7	9	0
) 0 926 03-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS INDUCTIVE LOADS TO THE GENERATOR	8	0	0	6	9	0	10
) 0 927 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE LONGER THAN A HALF-WAVE ACT AS INDUCTIVE LOADS TO THE GENERATOR	9	0	0	6	9	0	10
) 0 928 03-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS TO THE GENERATOR	10	0	0	6	7	0	6
) 0 929 03-16 DO YOU WORK WITH HERTZ ANTENNAS	10	2	2	7	11	0	19
) 0 930 03-17 DO YOU WORK WITH MARCONI ANTENNAS	8	1	0	2	2	0	1
) 0 931 03-18 DO YOU WORK WITH BROADSIDE ARRAYS	6	0	2	4	2	0	3
) 0 932 03-19 DO YOU WORK WITH END-FIRE ARRAYS	6	0	2	4	2	0	3
) 0 933 03-20 DO YOU WORK WITH CARDIOID ARRAYS	6	0	0	1	7	0	3
) 0 934 03-21 DO YOU WORK WITH COLLINEAR ARRAYS	6	1	2	6	7	0	9
) 0 935 03-22 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS WHEN WORKING WITH ANTENNAS	9	0	0	6	5	0	5
) 0 936 03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF ANTENNAS	6	0	0	1	5	0	3
) 0 937 03-28 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS	8	0	1	7	16	15	15
) 0 938 03-25 DO YOU MEASURE ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS	6	0	0	3	7	0	9
) 0 939 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION	6	0	0	3	5	0	3
) 0 940 03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD	6	0	0	2	4	0	3
) 0 941 03-26 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED	9	2	6	8	7	0	16
) 0 942 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY POLARIZED	6	1	6	19	5	0	19
) 0 943 03-30 DO YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS YOU WORK ON	7	0	1	5	5	0	5
) 0 944 03-31 DO YOU CONSTRUCT OR MAKE TIME CALCULATIONS NECESSARY TO CONSTRUCT ANTENNAS OF CORRECT LENGTH FOR SPECIFIC WAVELENGTHS	7	0	1	7	4	0	2

## PCI MBR'S RESPONDING 'YES' BY DAESG GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DI-TSM	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
0 945 03-32 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS	10	0	0	5	5	0	10	13	4
0 946 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS SERVING AS DIRECTORS	10	0	0	4	5	0	3	4	0
0 947 03-34 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS SERVING AS REFLECTORS	10	0	0	5	11	0	10	15	0
0 948 03-35 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN DON'T REMEMBER WHAT KIND OF ELEMENTS	6	15	10	8	29	96	37	44	46
0 949 03-36 DO YOU WORK ON UNIDIRECTIONAL ANTENNAS	13	8	7	18	29	15	25	23	27
0 850 03-37 DO YOU WORK ON BI DIRECTIONAL ANTENNAS	11	2	3	7	18	23	22	27	19
0 651 03-38 DO YOU WORK ON DON'T REMEMBER THE DIRECTIONALITY	4	10	19	5	27	38	43	58	38
0 852 03-39 DO YOU WORK WITH ROTAR ANTENNA ARRAYS	5	1	1	8	31	31	36	56	23
P 953 P1-01 IN YOUR PRESENT JOB DO YOU WORK WITH TRANSMISSION LINES (TRANSMISSION LINES ARE DEFINED TO INCLUDE LEADS BETWEEN RECEIVERS AND ANTENNAS, TELEPHONE LEADS, AS WELL AS HIGH VOLTAGE POWER LINES, ETC. DO NOT CONSIDER WAVEGUIDES AS TRANSMISSION LINES)	52	4	5	28	13	15	21	25	12
P 954 P1-02 DO YOU REFER TO OR USE COPPER LOSS OR IZR LOSS IN TRANSMISSION LINES	12	0	0	6	2	0	1	0	0
P 955 P1-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES	19	0	0	6	5	0	1	0	0
P 956 P1-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION LINES	21	0	0	11	2	0	3	2	0
P 957 P1-05 DO YOU USE OR REFER TO DIELECTRIC LOSS IN TRANSMISSION LINES	21	1	0	6	2	0	2	0	0
P 958 P1-06 DO YOU USE OR REFER TO LEAKAGE LOSSES IN TRANSMISSION LINES	25	1	0	11	5	0	5	4	0
P 959 P1-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES	18	1	1	10	9	0	5	8	8
P 960 P1-08 DO YOU WORK WITH TWIN LEAD TRANSMISSION LINES	30	1	1	8	4	0	3	6	6
P 961 P1-09 DO YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES	9	1	2	6	2	0	3	2	9
P 962 P1-10 DO YOU WORK WITH FLEXIBLE COAXIAL CABLE TRANSMISSION LINES	53	3	3	26	7	15	19	25	12
P 963 P1-11 DO YOU WORK WITH RIGID COAXIAL CABLE TRANSMISSION LINES	18	1	1	12	8	0	5	2	8
P 964 P1-12 DO YOU TROUBLESHOOT TRANSMISSION LINES	46	1	2	20	11	8	17	21	0
P 965 P1-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION (OPEN, SHORTED, CAPACITIVE, INDUCTIVE)	17	0	1	7	4	0	3	4	0
P 966 P1-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINES TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS	33	0	0	5	5	0	1	2	0
P 967 P1-15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS	39	0	0	10	5	0	2	0	0
P 968 P1-16 DO YOU MEASURE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES	16	0	0	6	5	0	1	0	0
P 969 P1-17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES	9	0	0	1	0	0	0	0	0
P 970 P1-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - WAVELENGTH MATCHING TRANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS	11	0	0	3	0	0	0	0	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DO-TSK	SPC 151	SPC 600	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
) P 971 PI-19 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING MATCHING TRANSFORMERS	33	0	1	9	4	0	5	8	4
) P 972 PI-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING DELTA MATCHING	8	0	0	2	9	0	0	0	0
) P 973 PI-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED FOR PARTICULAR JOBS WITHOUT REFERRING TO TECHNICAL DATA	16	0	0	5	2	0	2	0	4
) P 974 PI-22 DO YOU USE OR REFER TO THE TERM CHARACTERISTIC IMPEDANCE (Z0) OF TRANSMISSION LINES	36	0	0	9	9	0	1	0	0
) P 975 PI-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (Z0) OF TRANSMISSION LINES	8	0	0	3	2	0	0	0	0
) P 976 PI-24 DO YOU USE OR REFER TO THE TERM CUTOFF FREQUENCY OF TRANSMISSION LINES	9	0	0	2	4	0	0	0	0
) P 977 PI-25 DO YOU USE OR REFER TO THE TERM VELOCITY FACTOR (K) OF TRANSMISSION LINES	6	0	0	1	2	0	1	2	0
) P 978 PI-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES	10	0	0	4	2	0	2	4	0
) P 979 PI-27 DO YOU CONSTRUCT TRANSMISSION LINES OF PARTICULAR ELECTRICAL LENGTH FOR GIVEN FREQUENCIES	10	0	0	3	4	0	0	0	0
) P 980 PI-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT AS THE FREQUENCY INCREASES AND THE PHYSICAL LENGTH OF TRANSMISSION LINES REMAIN CONSTANT, THE ELECTRICAL LENGTH INCREASES	12	0	0	5	4	8	3	4	0
) P 981 PI-29 DO YOU WORK WITH NONRESONANT (FLAT) TRANSMISSION LINES	17	0	1	4	2	0	1	2	0
) P 982 PI-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES	21	0	0	3	5	0	0	6	9
) P 983 PI-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING STUB MATCHING	11	0	0	1	5	0	1	2	0
) P 984 PI-01 DO YOU WORK WITH WAVEGUIDES OR CAVITY RESONATORS IN YOUR PRESENT JOB	6	17	26	8	75	59	79	87	77
) P 985 PI-02 DO YOU INSPECT WAVEGUIDES OR CAVITY RESONATORS	5	15	26	5	73	46	81	92	73
) P 986 PI-03 DO YOU CLEAN WAVEGUIDES OR CAVITY RESONATORS	5	19	20	4	56	31	50	60	46
) P 987 PI-04 DO YOU BEND WAVEGUIDES OR CAVITY RESONATORS	3	8	6	1	16	0	25	37	27
) P 988 PI-05 DO YOU TWIST WAVEGUIDES OR CAVITY RESONATORS	3	2	3	1	11	0	18	25	19
) P 989 PI-06 DO YOU PRESSURIZE WAVEGUIDES OR CAVITY RESONATORS	3	1	1	1	76	46	76	90	62
) P 990 PI-07 DO YOU PURGE WAVEGUIDES OR CAVITY RESONATORS	3	9	13	1	22	0	20	25	0
) P 991 PI-08 DO YOU TROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS	3	8	6	2	56	31	69	81	62
) P 992 PI-09 DO YOU REMOVE OR INSTALL COMPLETE WAVEGUIDES	3	19	21	8	69	38	78	92	62
) P 993 PI-10 DO YOU REMOVE OR INSTALL WAVEGUIDE SECTIONS	3	3	7	1	71	66	73	79	73
) P 994 PI-11 DO YOU REMOVE OR INSTALL DUMMY LOADS	3	8	1	8	69	66	73	92	58
) P 995 PI-12 DO YOU REMOVE OR INSTALL E BENDS	3	1	1	2	28	0	22	33	8
) P 996 PI-13 DO YOU REMOVE OR INSTALL H BENDS	3	1	1	2	22	0	21	29	8
) P 997 PI-14 DO YOU REMOVE OR INSTALL OTHER BENDS	3	1	2	2	49	0	87	52	38
) P 998 PI-15 DO YOU REMOVE OR INSTALL CHONE JOINTS	3	3	1	1	2	9	0	23	37
) P 999 PI-16 DO YOU REMOVE OR INSTALL ROTATING JOINTS	3	1	0	2	9	15	33	37	31
) P1000 PI-17 DO YOU REMOVE OR INSTALL DIRECTIONAL COUPLERS	3	1	1	5	40	15	67	88	38
) P1001 PI-18 DO YOU REMOVE OR INSTALL BI DIRECTIONAL COUPLERS	3	1	1	5	22	8	28	21	23
) P1002 PI-19 DO YOU USE OR REFER TO "A" WALL OF WAVEGUIDES	3	0	1	7	0	8	15	6	0

## PCT MORRS RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISM	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
P1003 P2-20 DO YOU USE OR REFER TO "B" WALL OF WAVEGUIDES	3	0	0	1	7	0	8	15	4
P1004 P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES	9	0	1	2	11	0	10	13	12
P1005 P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF WAVEGUIDES	3	0	0	2	7	0	11	15	12
P1006 P2-23 DO YOU USE OR REFER TO POWER-DETERMINING WALL OF WAVEGUIDES	3	0	1	2	5	0	10	12	15
P1007 P2-24 DO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY CONDITIONS	3	0	0	2	5	0	3	8	0
P1008 P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY CONDITIONS	3	0	0	2	7	0	5	6	6
P1009 P2-26 DO YOU USE OR REFER TO DUPLEXER FIELD BOUNDARY CONDITIONS	3	0	0	1	9	0	6	12	9
P1010 P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF .7 WAVELENGTHS OF THE OPERATING FREQUENCY	3	0	0	1	4	0	6	13	0
P1011 P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST "A" WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH .35 USED AS AN AVERAGE	2	0	0	1	5	0	4	10	0
P1012 P2-29 ARE YOU CONCERNED WITH THE MATERIAL (SUCH AS BRASS) WHICH WAVEGUIDES ARE MADE OF	3	0	1	2	11	0	6	9	8
P1013 P2-30 DO YOU COMPUTE THE LENGTH OF A WAVEGUIDE FOR SPECIFIC INSTALLATION	2	0	0	1	0	0	3	9	8
P1014 P2-31 DO YOU USE THE RIGHT-HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR DIRECTION OF "H" FIELD IN WAVEGUIDES	3	0	0	2	5	0	3	6	0
P1015 P2-32 DO YOU USE OR REFER TO THE TIME PHASE OF PEAK "E" OR "H" LINES IN WAVEGUIDES	3	0	0	2	7	0	1	2	0
P1016 P2-33 DO YOU MEASURE THE TIME PHASE OF "E" OR "H" LINES IN WAVEGUIDES	3	0	0	1	5	0	1	2	0
P1017 P2-34 DO YOU USE OR REFER TO THE SPACE QUADRATURE OF "E" OR "H" LINES IN WAVEGUIDES	3	0	0	2	5	0	1	2	0
P1018 P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	2	0	0	1	18	0	11	12	4
P1019 P2-36 ARE LOW POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	3	0	1	2	16	0	5	6	4
P1020 P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	3	0	1	2	9	0	6	2	0
P1021 P2-38 ARE APERTURES (WINDOWS OR IRISSES) USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	3	3	9	2	35	8	19	19	23
P1022 P2-39 ARE YOU DON'T REMEMBER THE KIND OF ENERGY COUPLING USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	1	3	4	2	20	31	35	35	36
P1023 P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	2	0	0	1	2	0	1	0	0
P1024 P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	2	0	0	1	2	0	0	0	0

## PCI MEMBERS RESPONDING 'YES' BY DAFFC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISM

	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
P1025 P2-92 DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	2	0	0	0	2	0	1	2	0
P1026 P2-93 ARE CHOME JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	3	0	0	2	11	0	22	42	0
P1027 P2-94 ARE ROTATING JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	3	0	0	2	25	31	50	69	38
P1028 P2-95 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	2	4	0	2	33	31	24	21	31
P1029 P2-96 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING	3	0	1	2	11	0	9	12	0
P1030 P2-97 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING	3	0	0	2	15	0	5	8	0
P1031 P2-98 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING	3	0	1	2	15	0	11	10	12
P1032 P2-99 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER THE METHOD OF TUNING	2	2	0	1	20	38	39	35	38
P1033 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY RESONATORS	3	1	1	3	29	23	32	40	27
P1034 P3-01 IN YOUR PRESENT JOB DO YOU WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR MAGNETRONS	6	3	6	10	35	46	67	83	54
P1035 P3-02 DO YOU USE OR REFER TO INTERELECTRODE CAPACITANCE	0	0	0	1	9	7	0	7	0
P1036 P3-03 DO YOU USE OR REFER TO ELECTRON TRANSIT TIME	0	0	0	1	3	5	0	10	12
P1037 P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE	0	0	1	3	5	0	7	9	0
P1038 P3-05 DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY	0	0	1	2	7	13	0	16	13
P1039 P3-06 DO YOU USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION	0	1	0	3	7	0	3	4	0
P1040 P3-07 DO YOU USE OR REFER TO ELECTRON BUNCHING	0	1	0	3	5	0	0	6	0
P1041 P3-08 DO YOU WORK WITH TWO-CAVITY KLYSTRONS	0	1	1	1	9	15	15	15	19
P1042 P3-09 DO YOU WORK WITH THREE-CAVITY KLYSTRONS	0	0	1	1	2	8	3	2	0
P1043 P3-10 DO YOU WORK WITH REFLEX KLYSTRONS	5	2	2	6	29	15	35	0	27
P1044 P3-11 DO YOU WORK WITH TRAVELING-WAVE TUBES (TWT)	3	0	1	6	4	8	2	2	0
P1045 P3-12 DO YOU WORK WITH NONDEGENERATIVE PARAMETRIC AMPLIFIERS	3	0	0	6	2	0	0	0	0
P1046 P3-13 DO YOU WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS	3	0	0	3	2	0	3	0	0
P1047 P3-14 DO YOU WORK WITH MAGNETRONS	5	0	0	2	38	46	60	65	54
P1048 P3-15 DO YOU INSPECT KLYSTRONS OR TWT	5	1	2	3	22	23	43	56	42
P1049 P3-16 DO YOU CLEAN KLYSTRONS OR TWT	5	1	1	2	16	15	20	38	15
P1050 P3-17 DO YOU TUNE KLYSTRONS OR TWT ELECTRICALLY	5	3	2	1	27	23	31	35	30
P1051 P3-18 DO YOU TUNE KLYSTRONS OR TWT MECHANICALLY	5	2	3	2	16	15	47	60	46
P1052 P3-19 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TWT	5	3	2	5	31	23	50	63	46
P1053 P3-20 DO YOU TROUBLESHOOT KLYSTRONS OR TWT	5	1	0	2	22	23	43	60	42
P1054 P3-21 DO YOU REMOVE OR REPLACE COMPLETE KLYSTON OR TWT	5	2	1	2	29	31	52	67	54
P1055 P3-22 DO YOU REMOVE OR REPLACE KLYSTON OR TWT COMPONENTS	0	1	1	1	9	0	10	21	0
P1056 P3-23 DO YOU INSPECT PARAMETRIC AMPLIFIERS	3	0	0	0	2	0	5	0	0
P1057 P3-24 DO YOU CLEAN PARAMETRIC AMPLIFIERS	3	0	0	3	2	0	1	0	0
P1058 P3-25 DO YOU ADJUST PARAMETRIC AMPLIFIERS	3	0	0	3	2	0	1	0	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SA	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
P1059 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS	3	0	0	3	2	0	9	0	0	0
P1060 P3-27 DO YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC AMPLIFIERS	3	0	0	5	2	0	8	0	0	0
P1061 P3-28 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS	3	0	0	3	2	0	6	4	0	0
P1062 P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC AMPLIFIER	3	0	0	4	2	0	9	3	3	0
P1063 P3-30 DO YOU REMOVE OR REPLACE PARAMETRIC AMPLIFIER COMPONENTS	3	0	0	3	0	0	3	0	0	0
P1064 P3-31 DO YOU INSPECT MAGNETRONS	2	0	0	1	29	31	60	79	46	46
P1065 P3-32 DO YOU CLEAN MAGNETRONS	2	0	0	1	22	15	39	56	19	19
P1066 P3-33 DO YOU ADJUST MAGNETRONS	2	0	0	1	31	23	39	35	46	46
P1067 P3-34 DO YOU TUNE MAGNETRONS	2	0	0	1	27	23	36	29	46	46
P1068 P3-35 DO YOU PERFORM OPERATIONAL CHECKS OF MAGNETRONS	2	0	0	1	35	15	68	83	50	50
P1069 P3-36 DO YOU TROUBLESHOOT MAGNETRONS	2	0	0	1	31	15	53	73	35	35
P1070 P3-37 DO YOU REMOVE OR REPLACE COMPLETE MAGNETRON	2	0	0	1	29	23	65	61	54	54
P1071 P3-38 DO YOU REMOVE OR REPLACE MAGNETRON COMPONENTS	2	0	0	1	5	0	10	19	0	0
P1072 P3-39 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS COLLECTOR PLATES	3	0	0	4	0	0	5	6	4	4
P1073 P3-40 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATCHER CAVITIES	3	0	0	2	4	0	2	2	0	0
P1074 P3-41 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATCHER GRIDS	3	0	0	2	4	0	2	2	0	0
P1075 P3-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS FEEDBACK LOOPS	3	0	0	2	4	0	2	2	0	0
P1076 P3-43 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS DRIFT SPACES	3	0	0	2	4	0	0	0	0	0
P1077 P3-44 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS BUNCHER GRIDS	3	0	0	2	2	0	0	0	0	0
P1078 P3-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS BUNCHER CAVITIES	3	0	0	1	2	0	0	0	0	0
P1079 P3-46 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CONTROL GRIDS	3	0	0	2	4	0	3	2	0	0
P1080 P3-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATHODES	3	0	0	2	5	0	4	2	12	12
P1081 P3-48 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON REPELLER (REFLECTOR) PLATES	3	1	1	3	16	0	21	33	15	15
P1082 P3-49 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON RESONANT CAVITIES	3	1	1	3	15	0	10	15	4	4
P1083 P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON GRID CAVITY GAPS	3	1	1	2	9	0	7	10	0	0
P1084 P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON FILAMENTS	3	1	1	3	16	0	23	37	15	15
P1085 P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON MAGNETIC COUPLING LOOPS	3	1	0	2	4	0	6	10	0	0
P1086 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON CATHODES	3	1	1	2	15	0	13	15	12	12
P1087 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON CATHODES	3	1	0	3	15	0	15	19	12	12

## PCT MARS RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	0Y-1SK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
P1088 P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON OUTPUT LEADS	4	1	1	2	11	0	13	19	8	8
P1089 P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES FILAMENT	3	1	0	2	9	0	6	9	9	9
P1090 P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES CATHODES	3	1	0	3	9	0	6	9	9	9
P1091 P3-58 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ANODES	3	1	0	2	2	0	3	2	2	4
P1092 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES HELMICS	3	1	0	3	2	0	9	9	9	8
P1093 P3-60 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ATTENUATORS	3	1	0	3	2	0	2	2	2	0
P1094 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MODULATOR GRIDS	3	1	0	2	2	0	3	6	9	9
P1095 P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MAGNETS	3	0	0	2	0	0	3	6	0	0
P1096 P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ATTENATORS	3	1	0	3	0	0	5	9	9	9
P1097 P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE CIRCULATORS	3	0	0	1	9	0	11	21	0	0
P1098 P3-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL CAVITIES	3	0	0	2	9	0	3	2	9	9
P1099 P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER ISOLATOR CAVITIES	3	0	0	2	0	0	1	0	0	0
P1100 P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DIODES	3	0	0	2	9	0	3	2	0	0
P1101 P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE ISOLATORS	3	0	0	1	7	0	12	6	31	31
P1102 P3-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE- BIAS BATTERIES	3	0	0	0	0	0	2	2	0	0
P1103 P3-70 DO YOU PERFORM TASKS ON ANODE COOLING PINS	2	0	0	2	5	0	9	0	0	0
P1104 P3-71 DO YOU PERFORM TASKS ON ANODE COOLING PINS	2	0	0	1	5	0	5	5	5	5
P1105 P3-72 DO YOU PERFORM TASKS ON COUPLING LOOPS	2	0	0	2	8	0	6	9	9	9
P1106 P3-73 DO YOU PERFORM TASKS ON HEATER LEADS	2	0	0	1	9	0	10	6	23	23
P1107 P3-74 DO YOU PERFORM TASKS ON RESONANT CAVITIES	2	0	0	1	5	0	17	21	0	0
P1108 P3-75 DO YOU PERFORM TASKS ON CATHODES	2	0	0	2	8	0	11	10	15	15
P1109 P3-76 DO YOU PERFORM TASKS ON MAGNETS	2	0	0	2	7	0	10	21	9	9
P1110 01-01 DO YOU USE OR REFER TO STORAGE REGISTERS	12	0	0	32	69	0	8	2	0	0
P1111 01-02 DO YOU USE OR REFER TO SHIFT REGISTERS	15	0	1	32	69	0	8	2	0	0
P1112 01-03 DO YOU USE OR REFER TO LOGIC SYMBOLS OF SHIFT REGISTERS	16	0	0	27	38	0	7	6	8	8
P1113 01-04 DO YOU USE OR REFER TO LOGIC SYMBOLS OF STORAGE REGISTERS	12	0	0	27	38	0	7	0	8	8
P1114 01-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	13	0	1	26	29	0	7	0	4	4
P1115 01-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF REGISTERS	16	1	1	24	27	6	9	2	4	4

## PCI MBR'S RESPONDING 'YES' • BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISM	SPC								
	151	800	801	802	803	804	805	806	807
0116 Q1-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES HAVE PASSED	13	3	3	20	20	0	3	2	0
0117 Q2-01 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR STORAGE DEVICES IN YOUR PRESENT JOB	21	10	6	37	33	0	17	8	19
0118 Q2-02 DO YOU USE OR REFER TO DELAY LINES	20	0	0	18	9	0	12	10	8
0119 Q2-03 DO YOU USE OR REFER TO MAGNETIC CORES	8	0	0	21	31	0	7	2	6
0120 Q2-04 DO YOU USE OR REFER TO MAGNETIC DRUMS	6	0	0	10	5	0	6	2	0
0121 Q2-05 DO YOU USE OR REFER TO MAGNETIC TAPES	17	0	0	31	13	0	5	2	8
0122 Q2-06 DO YOU USE OR REFER TO ACCESS TIME OR SPEED OR MEMORY SYSTEMS	9	0	1	20	27	0	5	6	0
0123 Q2-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY SYSTEMS	7	0	0	22	29	0	6	2	0
0124 Q2-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS	6	0	0	11	9	0	2	2	0
0125 Q2-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY LINES	9	0	0	16	7	0	4	2	8
0126 Q3-01 IN YOUR PRESENT JOB, DO YOU WORK WITH DIGITAL-TO-ANALOG, DIGITAL-TO-DIGITAL, ANALOG-TO-DIGITAL (A/D), CONVERTERS, OR BINARY-TO-DECIMAL READOUT CONVERTERS	9	1	0	34	33	0	11	2	0
0127 Q3-02 DO YOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS FOR GIVEN INPUT VOLTAGES	6	0	0	14	9	0	3	2	0
0128 Q3-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE PESTISTORS	6	0	0	10	9	0	3	2	0
0129 Q3-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY COUNTS IN ELECTRONIC DIGITAL-TO-ANALOG (D/A) CONVERTERS	7	0	0	16	13	0	3	2	0
0130 Q3-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	7	0	0	10	9	0	3	0	0
0131 Q3-06 DO YOU PERFORM HOLD FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	7	0	0	8	11	0	3	0	0
0132 Q3-07 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	6	0	0	7	9	0	3	0	0
0133 Q3-08 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	7	0	0	10	9	0	3	0	0
0134 Q3-09 DO YOU PERFORM DON'T REMEMBER WHICH FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	3	0	0	8	9	0	5	2	0
0135 Q3-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D CONVERTERS	7	0	0	12	9	0	2	0	0
0136 Q3-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D CONVERTERS	7	0	0	11	11	0	3	0	0
0137 Q3-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D CONVERTERS	7	0	0	9	11	0	3	0	0
0138 Q3-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D CONVERTERS	7	0	0	12	11	0	3	0	0
0139 Q3-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-DIGITAL (A/D) CONVERTERS	3	0	0	7	15	0	1	0	0

PCT MEMBERS RESPONDING 'YES' BY DAESG GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	07-TSK	SPC 151	SPC 400	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
) R140 R1-01 DO YOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR PRESENT JOB	2	1	1	3	31	23	13	12	12	12
) R141 R2-01 IN YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER CIRCUITS	35	1	0	25	20	0	12	12	8	8
) R142 R2-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER SCHEMATIC DIAGRAMS	27	0	0	19	15	4	10	10	4	4
) R143 R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS	24	0	0	17	13	0	3	0	0	0
) R144 R3-01 IN YOUR PRESENT JOB DO YOU FABRICATE MULTICONDUCTOR CABLES	45	6	7	52	35	38	30	33	42	42
) R145 R3-02 DO YOU FABRICATE COAXIAL CABLES	57	7	19	56	51	69	53	50	77	77
) S146 S1-01 IN YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON VISUAL READOUT SYSTEMS	21	23	15	67	56	15	23	6	27	27
) S147 S1-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE LIGHT DECODER SYSTEMS	7	3	1	27	11	0	9	2	31	31
) S148 S1-03 DO YOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING BOOLEAN ALGEBRA	4	0	0	7	7	0	1	2	0	0
) S149 S2-01 DO YOU WORK WITH PHOTO TUBES IN YOUR PRESENT JOB	46	3	2	19	29	23	9	6	0	0
) S150 S3-01 IN YOUR PRESENT JOB DO YOU WORK WITH CHOPPER CIRCUITS	15	1	1	12	11	0	21	12	31	31
) S151 S3-02 DO YOU MEASURE EXCITATION FREQUENCIES	10	0	0	5	9	0	9	6	19	19
) S152 S3-03 DO YOU MEASURE VOLTAGE-CURRENT PHASE RELATIONSHIPS	8	0	0	5	7	0	8	8	8	8
) S153 S3-04 DO YOU USE OR REFER TO EXCITATION FREQUENCIES	8	0	0	9	8	10	6	27	27	27
) S154 S3-05 DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIPS	7	0	0	6	7	0	7	6	12	12
) S155 S3-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	11	1	1	5	13	0	19	15	27	27
) S156 S3-07 DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	12	1	1	5	13	0	20	15	27	27
) S157 S3-08 DO YOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	12	1	1	6	15	0	20	15	27	27
) S158 S3-09 DO YOU USE COMPARISON CIRCUITS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	12	1	1	8	13	0	20	15	31	31
) T159 T1-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH INFRARED SYSTEMS	3	0	0	40	6	0	0	10	0	0
) T160 T1-02 DO YOU INSPECT INFRARED SYSTEMS	2	36	30	5	76	0	10	0	0	0
) T161 T1-03 DO YOU CLEAN INFRARED SYSTEMS	2	29	30	9	73	0	9	2	0	0
) T162 T1-04 DO YOU ADJUST OR CALIBRATE INFRARED SYSTEMS	2	31	21	5	87	0	10	2	0	0
) T163 T1-05 DO YOU OPERATE INFRARED SYSTEMS	2	37	29	5	62	0	10	2	0	0
) T164 T1-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF INFRARED SYSTEMS	1	18	10	5	62	0	10	2	0	0
) T165 T1-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED SYSTEMS	1	26	13	0	82	0	10	2	0	0
) T166 T1-08 DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM COMPONENT PARTS	1	10	6	4	45	0	6	2	0	0
) T167 T1-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF INFRARED SYSTEMS	1	24	19	5	78	0	10	2	0	0
) T168 T1-10 DO YOU REMOVE OR REPLACE INFRARED SYSTEM COMPONENT PARTS	2	13	4	5	47	0	6	6	0	0

PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

		DY-ISM								
		SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
)	T1169 11-11 DO YOU USE OR REFER TO FAR REGION	1	9	1	3	7	0	2	2	0
)	T1170 11-12 DO YOU USE OR REFER TO INTERMEDIATE REGION	1	9	1	3	7	0	2	0	0
)	T1171 11-13 DO YOU USE OR REFER TO NEAR REGION	0	9	2	3	5	0	3	4	0
)	T1172 11-14 DO YOU USE OR REFER TO MICRON	1	6	1	9	11	0	2	0	0
)	T1173 11-15 DO YOU USE OR REFER TO GRAY BODIES	0	7	1	2	13	0	1	0	0
)	T1174 11-16 DO YOU USE OR REFER TO BLACK BODIES	0	7	1	3	67	0	2	0	0
)	T1175 11-17 DO YOU USE OR REFER TO ABSORPTION	1	7	1	9	29	0	2	0	0
)	T1176 11-18 DO YOU USE OR REFER TO SCATTERING	1	7	1	9	7	0	2	0	0
)	T1177 11-19 DO YOU USE OR REFER TO ABSOLUTE ZERO	0	4	1	3	69	0	1	0	0
)	T1178 11-20 DO YOU PERFORM TASKS ON BLITZ	0	0	0	0	0	0	0	0	0
)	T1179 11-21 DO YOU PERFORM TASKS ON TARGET BUTTONS	0	0	0	0	1	2	0	0	0
)	T1180 11-22 DO YOU PERFORM TASKS ON ERECTOR LENSES	1	0	0	2	3	0	0	0	0
)	T1181 11-23 DO YOU PERFORM TASKS ON OCULAR LENSES	1	1	2	2	5	0	1	0	0
)	T1182 11-24 DO YOU PERFORM TASKS ON CORRECTION LENSES	1	1	1	2	5	0	1	0	0
)	T1183 11-25 DO YOU PERFORM TASKS ON FILTERS	2	1	1	3	9	0	0	0	0
)	T1184 11-26 DO YOU PERFORM TASKS ON SPHERICAL MIRRORS	0	1	2	4	0	0	0	0	0
)	T1185 11-27 DO YOU PERFORM TASKS ON PLANE MIRRORS	2	1	2	4	0	0	0	0	0
)	T1186 12-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH LASERS	3	6	29	13	0	0	0	0	0
)	T1187 12-02 DO YOU INSPECT LASER SYSTEMS	1	6	26	8	0	0	1	2	0
)	T1188 12-03 DO YOU CLEAN LASER SYSTEMS	1	1	3	22	7	0	0	1	2
)	T1189 12-04 DO YOU OPERATE LASER SYSTEMS	1	9	21	10	0	0	1	2	0
)	T1190 12-05 DO YOU OPERATE LASER SYSTEMS	1	9	21	10	0	0	1	2	0
)	T1191 12-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF LASER SYSTEMS	1	2	7	8	0	0	0	1	2
)	T1192 12-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASER SYSTEMS	0	2	13	6	0	0	1	2	0
)	T1193 12-08 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF LASER SYSTEMS	0	2	9	6	0	0	1	2	0
)	T1194 12-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF LASER SYSTEMS	0	2	12	7	0	0	1	2	0
)	T1195 12-10 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF LASER SYSTEMS	0	1	5	6	0	0	1	2	0
)	T1196 12-11 DO YOU USE OR REFER TO ANGSTROMS (A)	1	1	1	0	0	0	1	2	0
)	T1197 12-12 DO YOU USE OR REFER TO ELECTRON ENERGY LEVELS	1	0	0	0	0	0	1	2	0
)	T1198 12-13 DO YOU USE OR REFER TO GROUND STATE	2	0	0	0	0	0	2	0	0
)	T1199 12-14 DO YOU USE OR REFER TO EXCITED STATE	1	0	0	0	0	0	2	0	0
)	T1200 12-15 DO YOU USE OR REFER TO PACKET OF RADIATION	1	0	0	0	0	0	1	2	0
)	T1201 12-16 DO YOU USE OR REFER TO PHOTONS	1	0	0	0	0	0	2	0	0
)	T1202 12-17 DO YOU USE OR REFER TO SPONTANEOUS EMISSION	1	0	0	0	0	0	1	2	0
)	T1203 12-18 DO YOU USE OR REFER TO STIMULATED EMISSION	1	0	0	0	0	0	2	0	0
)	T1204 12-19 DO YOU USE OR REFER TO COHERENCE OR INCOHERENCE	1	0	0	0	0	0	1	2	0
)	T1205 12-20 DO YOU USE OR REFER TO INVERSION LEVEL	0	0	0	1	0	0	1	2	0
)	T1206 12-21 DO YOU USE OR REFER TO MONOCHROMATIC	0	1	0	5	0	0	1	2	0
)	T1207 12-22 DO YOU WORK WITH ACTIVE MATERIALS	1	1	0	5	0	0	1	2	0
)	T1208 12-23 DO YOU WORK WITH PUMPING SOURCES	1	1	1	6	0	0	1	2	0
)	T1209 12-24 DO YOU WORK WITH FULL SILVERED (100% REFLECTIVE) MIRRORS	1	1	0	0	0	0	1	2	0

## PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-TSK	SPC 151	SPC 800	SPC 801	SPC 802	SPC 803	SPC 804	SPC 805	SPC 806	SPC 807
)	T1210 12-25 DO YOU WORK WITH HALF SILVERED (923 REFLECTIVE) MIRRORS	1	1	1	7	0	0	1	2	0
)	T1211 12-26 DO YOU WORK WITH HELICAL FLASHTUBES	1	1	1	2	4	0	0	0	0
)	T1212 12-27 DO YOU WORK WITH RUBY	0	0	1	5	0	0	0	0	0
)	T1213 12-28 DO YOU WORK WITH HELIUM-NEON	1	1	0	8	0	0	0	0	0
)	T1214 12-29 DO YOU WORK WITH HELIUM-XENON	0	0	1	2	0	0	1	2	0
)	T1215 12-30 DO YOU WORK WITH XENON	0	0	0	0	2	0	1	2	0
)	T1216 12-31 DO YOU WORK WITH CESIUM-HELIM	0	0	0	0	2	0	0	1	2
)	T1217 12-32 DO YOU WORK WITH ARGON	0	0	1	1	6	0	0	1	2
)	T1218 12-33 DO YOU WORK WITH NEODIUM IN GLASS	0	0	0	2	0	0	1	2	0
)	T1219 12-34 DO YOU WORK WITH GALLIUM ARSENIDE	0	0	0	3	0	0	1	2	0
)	T1220 13-01 IN YOUR PRESENT JOB DO YOU WORK WITH DISPLAY TUBES, SUCH AS DIRECT I/EI STORAGE (DVST) OR MULTIPLE MODE STORAGE TUBES (MMST)	1	1	1	3	20	8	23	0	0
)	T1221 13-02 DO YOU INSPECT DVST OR MMST	1	1	1	2	18	0	18	2	0
)	T1222 13-03 DO YOU CLEAN DUST OR MMST	1	1	1	2	15	0	13	2	0
)	T1223 13-04 DO YOU ADJUST OR CALIBRATE DVST OR MMST	1	1	0	2	11	0	18	2	0
)	T1224 13-05 DC YOU OPERATE SYSTEMS THAT CONTAIN DVST OR MMST	1	1	1	2	20	8	24	2	0
)	T1225 13-06 DO YOU TROUBLESHOOT DVST OR MMST	1	1	0	1	15	0	18	2	0
)	CIRCUITS									
)	T1226 13-07 DO YOU REMOVE OR REPLACE DVST OR MMST TUBES FROM MAJOR ASSEMBLIES OR UNITS	1	1	0	1	11	0	18	2	0
)	T1227 13-08 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF DUST	1	0	0	0	9	0	7	2	0
)	T1228 13-09 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF MMST	1	0	0	0	1	7	0	10	2
)	T1229 13-10 DO YOU PERFORM TASKS ON FLOOD GUNS	0	0	0	0	1	7	0	11	2
)	T1230 13-11 DO YOU PERFORM TASKS ON WRITE GUNS	0	0	0	0	1	7	0	10	2
)	T1231 13-12 DO YOU PERFORM TASKS ON ATTACK GUNS	0	0	0	0	2	0	10	2	0
)	T1232 13-13 DO YOU PERFORM TASKS ON ERASE GUNS	0	0	0	0	1	7	0	11	2
)	T1233 13-14 DO YOU PERFORM TASKS ON STORAGE GRIDS	0	0	1	0	2	7	0	10	2
)	U1234 13-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY PROGRAMMING TASKS	3	0	1	23	31	0	8	0	8
)	U1235 13-02 DO YOU USE OR REFER TO DECIMAL SYSTEMS	2	0	0	20	27	0	9	0	0
)	U1236 13-03 DO YOU USE OR REFER TO PROGRAMS	1	0	0	22	25	0	9	0	0
)	U1237 13-04 DO YOU USE OR REFER TO HEXIDECLIMAL SYSTEMS	1	0	0	6	28	0	0	0	0
)	U1238 13-05 DO YOU USE OR REFER TO 8-4-2-1 SYSTEMS	1	0	0	10	13	0	3	0	0
)	U1239 13-06 DO YOU USE OR REFER TO FOUR SYSTEMS	0	0	0	5	9	0	0	0	0
)	U1240 13-07 DO YOU USE OR REFER TO BINARY SYSTEMS	3	0	0	19	33	0	0	0	0
)	U1241 13-08 DO YOU USE OR REFER TO TIME-SHARING	2	0	0	12	7	0	0	0	0
)	U1242 13-09 DO YOU USE OR REFER TO DATA WORDS	2	0	0	19	22	0	6	0	0
)	U1243 13-10 DO YOU USE OR REFER TO ADDRESS WORDS	2	0	0	20	29	0	6	0	0
)	U1244 13-11 DO YOU USE OR REFER TO ADDRESS/SUBADDRESS	2	0	0	17	28	0	6	0	0
)	U1245 13-12 DO YOU USE OR REFER TO STEERING/INFORMATION WORDS	1	0	0	10	11	0	5	0	0
)	U1246 13-13 DO YOU PERFORM TASKS ON SINGLE LEVEL PROGRAMMING	1	0	0	17	20	0	5	0	0
)	U1247 13-14 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING	1	0	0	13	22	0	2	0	0
)	U1248 13-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING	1	0	0	11	0	1	0	0	0

## PCI MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-TSK	SPC 151 ADD	SPC 801 ADD	SPC 802 ADD	SPC 803 ADD	SPC 804 ADD	SPC 805 ADD	SPC 806 ADD	SPC 807
) U1249	U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES	1	0	16	22	0	4	0	0
) U1250	U1-17 DO YOU PERFORM TASKS ON STORAGE DEVICES	0	0	0	14	24	0	0	0
) U1251	U1-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS	0	0	0	11	22	0	3	0
) U1252	U1-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS	1	0	1	14	27	0	3	0
) U1253	U1-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES	2	0	0	14	27	0	3	0
) U1254	U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES	2	0	0	11	29	0	4	0
) U1255	U1-22 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND ATTENUATION	55	1	2	48	36	15	43	27
) U1256	U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN DECIBELS	13	0	0	12	2	0	4	2
) U1257	U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN DECIBELS	13	0	0	10	4	0	4	2
) U1258	U2-04 DUMMY TASK TO IDENTIFY INCUMENTS WHO PERFORMED NO TASKS	3	7	3	1	2	15	0	0

PCT MBR'S RESPONDING "YES" BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

TABULATION OF PERCENT MEMBERS RESPONDING "YES" TO  
QUESTIONS BY DAFSC GROUPS

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

GROUP IDENTITY = SPC808 ALL AIRMEN DAFSC (SLICK) 32152  
GROUP IDENTITY = SPC809 ALL AIRMEN DAFSC (SLICK) 32152  
GROUP IDENTITY = SPC810 ALL AIRMEN DAFSC 32152A  
GROUP IDENTITY = SPC811 ALL AIRMEN DAFSC 32450  
GROUP IDENTITY = SPC824 ALL AIRMEN DAFSC 32950A  
GROUP IDENTITY = SPC825 ALL AIRMEN DAFSC 32950B  
GROUP IDENTITY = SPC826 ALL AIRMEN DAFSC 40450  
GROUP IDENTITY = SPC827 ALL AIRMEN DAFSC 40451  
GROUP IDENTITY = SPC828 ALL AIRMEN DAFSC 46250

CONTAINING 8 MEMBERS.  
CONTAINING 8 MEMBERS.  
CONTAINING 59 MEMBERS.  
CONTAINING 386 MEMBERS.  
CONTAINING 42 MEMBERS.  
CONTAINING 25 MEMBERS.  
CONTAINING 181 MEMBERS.  
CONTAINING 69 MEMBERS.  
CONTAINING 1205 MEMBERS.

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

## DY-TSK

SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
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A 1 A1-4 IN YOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS  
METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO  
AMPLIFY OR ATTENUATE VOLTAGE, RESISTANCE, ETC., BY POWERS  
OF 10.

A 2 A1-02 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS  
OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU  
TO MULTIPLY OR DIVIDE BY A POWER OF 10 BEFORE YOU CAN  
APPLY THE INFORMATION FROM THE PUBLICATION IN A USEFUL WAY  
ON THE JOB.

A 3 A1-03 DO YOU REARRANGE AND SOLVE FORMULAS OR EQUATIONS.  
A 4 A1-04 DO YOU CALCULATE THE SQUARE ROOT OF A QUANTITY.

A 5 A1-05 DO YOU SOLVE FOR UNKNOWN QUANTITIES.  
A 6 A1-06 DO YOU CONVERT NUMBERS TO LOGARITHMS.

A 7 A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF  
CALCULATIONS.

A 8 A1-08 DO YOU SOLVE QUADRATIC EQUATIONS.  
A 9 A1-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS.

A 10 A1-10 DO YOU PERFORM CALCULATIONS ON VECTOR QUANTITIES.  
A 11 A1-11 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS  
SINE, COSINE, OR TANGENT.

A 12 A1-12 DO YOU DETERMINE AREAS OF PLANE FIGURES.  
A 13 A1-13 DO YOU SOLVE OR USE SIMULTANEOUS EQUATIONS.

A 14 A1-14 DO YOU SOLVE OR USE PROPORTIONS.  
A 15 A2-01 DO YOU USE THE TERM VOLTA, VOLT (V).

A 16 A2-02 DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF).  
A 17 A2-03 DO YOU USE THE TERM OHM.

A 18 A2-04 DO YOU USE THE TERM ION.  
A 19 A2-05 DO YOU USE THE TERM DIANE.

A 20 A2-06 DO YOU USE THE TERM AMPERE.  
A 21 A2-07 DO YOU USE THE TERM NEUTRON.

A 22 A2-08 DO YOU USE THE TERM COULOMB.  
A 23 A2-09 DO YOU USE THE TERM PROTON.

A 24 A3-01 DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.  
A 25 A3-02 DO YOU INSPECT RESISTORS.

A 26 A3-03 DO YOU CLEAN RESISTORS.  
A 27 A3-04 DO YOU ADJUST RESISTORS.

A 28 A3-05 DO YOU CHECK OHMIC VALUE OR RESISTORS.

A 29 A3-06 DO YOU REMOVE OR REPLACE RESISTORS.

A 30 A3-07 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR  
RESISTORS ON ANY TASKS YOU PERFORM.

A 31 A3-08 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED  
RESISTOR SYMBOLS OR TAPPED RESISTOR SYMBOLS.

A 32 A3-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK  
WITH AS CARBON, FIXED WIRE, SLIDE WIRE, RHEOSTAT, OR  
POTENTIOMETER.

A 33 A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC  
VALUE OF RESISTANCE.

100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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100	100	81	89	88	64	51	32	50
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## PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DAFS GROUP	PERCENT MEMBERS PERFORMING	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
A 34 A3-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE TOLERANCE.	75	75	31	92	78	64	65	68	19
A 35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE FAILURE RATE.	63	63	7	19	19	4	19	22	7
A 36 A3-13 DO YOU MAKE DECISIONS IN WHICH YOU MUST DETERMINE HOW TWO OR MORE BATTERIES MUST BE CONNECTED TOGETHER TO ACHIEVE A SPECIFIC VOLTAGE.	75	75	15	67	31	16	37	25	5
A 37 A3-14 DO YOU USE OR REFER TO THE SCHEMATIC SYMBOLS WHICH REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES.	100	100	64	95	90	68	83	84	30
A 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES RESISTIVE CIRCUITS.	75	75	41	82	57	46	42	38	16
A 39 A3-16 DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE CIRCUITS.	75	75	27	70	60	36	41	35	16
A 40 A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES RESISTIVE CIRCUITS.	88	88	34	75	57	40	38	36	13
A 41 A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES RESISTIVE CIRCUITS.	63	63	25	60	50	36	30	26	12
A 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL RESISTIVE CIRCUITS.	75	75	37	76	57	40	39	33	14
A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL RESISTIVE CIRCUITS.	75	75	25	65	55	40	38	35	14
A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	68	68	36	69	57	40	37	33	12
A 45 A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	75	75	22	61	48	40	39	29	11
A 46 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES PARALLEL RESISTIVE CIRCUITS.	63	63	24	59	50	36	29	28	10
A 47 A3-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL RESISTIVE CIRCUITS.	75	75	37	76	55	44	35	28	12
A 48 A3-25 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR CIRCUITS.	75	75	27	64	55	40	39	26	12
A 49 A3-26 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS.	68	68	36	68	52	40	33	26	11
A 50 A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS.	75	75	27	61	48	40	29	25	10
A 51 A3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCUITS.	63	63	24	59	45	36	28	22	9
B 52 B1-01 DO YOU MEASURE RESISTANCE.	100	100	88	95	90	89	91	87	61
B 53 B1-02 DO YOU REPAIR OHMMETERS.	0	0	5	61	7	0	7	1	4
B 54 B1-03 DO YOU MEASURE VOLTAGE.	100	100	90	95	80	92	88	82	
B 55 B1-04 DO YOU REPAIR VOLTMETERS.	13	13	5	61	7	0	2	1	4
B 56 B1-05 DO YOU REPAIR AMMETERS.	0	0	5	58	5	0	2	0	3
B 57 B1-06 DO YOU MEASURE CURRENT.	100	100	76	87	83	68	77	70	57
B 58 B1-07 DO YOU USE MULTIMETERS.	100	100	98	99	98	76	91	91	80
B 59 B1-08 DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED A COULOMB.	13	13	5	7	5	0	5	0	2
B 60 B1-09 DO YOU READ SCHEMATICS.	88	88	86	95	95	88	96	91	58

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISK	SPC								
	808	809	810	All	828	825	826	827	828
B 61 B2-01 DO YOU USE OR REFER TO THE TERM EFFECTIVE VOLTAGE (RMS).	88	88	59	94	83	84	36	30	9
B 62 B2-02 DO YOU USE OR REFER TO THE TERM PEAK TO PEAK VOLTAGE.	88	88	78	94	93	69	39	33	7
B 63 B2-03 DO YOU USE OR REFER TO THE TERM AVERAGE VOLTAGE (DC).	88	88	71	86	74	52	42	25	28
B 64 B2-04 DO YOU USE OR REFER TO THE TERM MAX LENGTH.	88	88	69	65	43	44	29	26	5
B 65 B2-05 DO YOU USE OR REFER TO THE TERM FREQUENCY.	88	88	81	95	90	64	81	35	9
B 66 B2-06 DO YOU USE OR REFER TO THE TERM INSTANTANEOUS VALUE.	88	88	25	52	50	8	13	6	3
B 67 B3-01 DO YOU WORK WITH INDUCTORS OR CIRCUITS CONTAINING INDUCTORS, CHOKES, OR CHOKE COILS IN YOUR PRESENT JOB.	88	88	29	82	57	56	25	12	8
B 68 B3-02 DO YOU INSPECT INDUCTORS.	38	38	20	81	50	49	28	13	2
B 69 B3-03 DO YOU CLEAN INDUCTORS.	88	88	0	12	60	31	16	16	7
B 70 B3-04 DO YOU ADJUST INDUCTORS.	38	38	19	82	88	20	13	6	1
B 71 B3-05 DO YOU REMOVE OR REPLACE INDUCTORS.	13	13	12	81	45	52	22	13	2
B 72 B3-06 DO YOU USE OR REFER TO INDUCTANCE.	75	75	19	83	55	40	18	9	2
B 73 B3-07 DO YOU USE OR REFER TO HENRIES.	63	63	10	73	50	32	18	7	1
B 74 B3-08 DO YOU USE OR REFER TO INDUCTIVE REACTANCE.	75	75	12	58	50	36	19	9	1
B 75 B3-09 DO YOU USE OR REFER TO COPPER LOSS IN INDUCTORS.	50	50	12	9	2	4	2	0	1
B 76 B3-10 DO YOU USE OR REFER TO HYSTERESIS LOSS IN INDUCTORS.	63	63	10	20	5	8	2	0	1
B 77 B3-11 DO YOU USE OR REFER TO EDDY CURRENT LOSS IN INDUCTORS.	63	63	8	18	7	8	3	0	1
B 78 B3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTANCE IS PROPORTIONAL TO THE SQUARE OF THE NUMBER OF TURNS OF THE COIL.	63	63	12	17	7	8	5	4	1
B 79 B3-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE CROSS SECTIONAL AREA OF THE CORE.	75	75	12	14	7	0	6	0	1
B 80 B2-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS INVERSELY PROPORTIONAL TO ITS LENGTH.	63	63	12	13	7	0	7	6	1
B 81 B2-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE PERMEABILITY OF THE CORE MATERIAL.	75	75	10	16	7	0	0	0	1
B 82 B2-16 DO YOU CALCULATE INDUCTANCE FOR PARTICULAR INDUCTORS USING FORMULAS.	75	75	0	21	12	4	6	4	1
B 83 B3-17 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN SERIES.	63	63	8	30	14	16	8	9	1
B 84 B3-18 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN PARALLEL.	63	63	8	30	14	16	8	9	1
B 85 B3-19 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN SERIES-PARALLEL CIRCUITS.	63	63	8	27	17	16	8	9	1
B 86 B3-20 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LAGS VOLTAGE IN AC INDUCTOR CIRCUITS.	75	75	15	34	17	26	9	7	1
B 87 B3-21 DO YOU CALCULATE INDUCTIVE REACTANCE.	63	63	8	31	19	28	8	7	1
B 88 B3-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO FREQUENCY.	75	75	8	45	17	28	6	6	1
B 89 B3-23 DO YOU WORK WITH POWER INDUCTORS.	50	50	22	37	31	32	13	12	2
B 90 B3-24 DO YOU WORK WITH AUDIO FREQUENCY INDUCTORS.	63	63	15	67	17	8	7	6	1
B 91 B3-25 DO YOU WORK WITH RADIO FREQUENCY INDUCTORS.	75	75	20	68	19	12	2	0	0

PCI MRS. RESPONDING 'YES' BY DAFSC GROUPS  
TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SM	SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
) C 92 CI-01 DO YOU WORK WITH CAPACITORS OR CIRCUITS CONTAINING CAPACITORS IN YOUR PRESENT JOB.	68	68	58	91	83	64	72	62	9	
) C 93 CI-02 DO YOU INSPECT CAPACITORS.	63	63	42	90	76	69	66	62	7	
) C 94 CI-03 DO YOU CLEAN CAPACITORS.	25	25	15	72	48	20	41	32	9	
) C 95 CI-04 DO YOU ADJUST CAPACITORS.	50	50	81	92	83	28	17	17	2	
) C 96 CI-05 DO YOU TEST CAPACITORS.	75	75	22	90	67	64	65	55	6	
) C 97 CI-06 DO YOU DISCHARGE CAPACITORS.	75	75	48	88	67	90	69	39	3	
) C 98 CI-07 DO YOU REMOVE OR REPLACE CAPACITORS.	13	13	25	91	69	64	71	59	7	
) C 99 CI-08 DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE.	63	63	14	32	21	4	9	9	1	
) C 100 CI-09 DO YOU USE OR REFER TO ORBITAL STRESS OF ELECTRONS IN A DIELECTRIC.	50	50	7	5	7	0	2	1	1	
) C 101 CI-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS.	75	75	29	92	67	60	36	92	2	
) C 102 CI-11 DO YOU USE OR REFER TO CAPACITANCE.	75	75	37	92	67	60	66	95	9	
) C 103 CI-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT	63	63	8	30	10	8	9	3	1	
) C 104 CI-13 DO YOU USE OR REFER TO WORKING VOLTAGE RATING OF CAPACITORS	68	68	14	85	43	48	38	26	8	
) C 105 CI-14 DO YOU USE OR REFER TO CAPACITIVE REACTANCE	68	68	15	53	43	20	23	28	3	
) C 106 CI-15 DO YOU USE OR REFER TO CAPACITOR COLOR CODES	50	50	10	61	26	28	25	22	9	
) C 107 CI-16 DO YOU WORK WITH CAPACITORS IN DC CIRCUITS	68	68	61	90	78	68	61	59		
) C 108 CI-17 DO YOU WORK WITH CAPACITORS IN AC CIRCUITS	68	68	56	95	78	64	69	52	9	
) C 109 CI-18 DO YOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC AND AC	68	68	58	92	78	68	50	48	8	
) C 110 CI-19 DO YOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH CIRCUITS	13	13	10	10	36	8	18	10	3	
) C 111 CI-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR CAPACITORS USING FORMULAS	63	63	7	27	19	8	9	9	1	
) C 112 CI-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE DIELECTRIC CONSTANT	63	63	8	16	10	0	8	3	1	
) C 113 CI-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO THE DIELECTRIC THICKNESS	75	75	7	19	12	4	4	7	1	
) C 114 CI-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES	63	63	8	59	29	20	15	18	2	
) C 115 CI-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL	75	75	7	55	29	20	19	19	2	
) C 116 CI-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES-PARALLEL CIRCUITS	63	63	7	45	29	20	13	12	2	
) C 117 CI-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO	68	68	18	98	39	16	13	13	1	
) C 118 CI-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS	75	75	19	33	31	16	16	20	2	
) C 119 CI-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO FREQUENCY	75	75	7	46	21	12	4	13	1	
) C 120 CI-29 DO YOU CALCULATE CAPACITIVE REACTANCE	63	63	8	32	29	8	10	13	1	

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISM	SPC								
	808	809	810	811	824	825	826	827	
C 121 C1-30 DO YOU WORK WITH ROTOR-STATOR (VARIABLE) CAPACITORS	75	75	29	85	31	16	18	7	2
C 122 C1-31 DO YOU WORK WITH COMPRESSION (TRIMMER) CAPACITORS	25	25	17	88	24	26	10	3	1
C 123 C1-32 DO YOU WORK WITH ELECTROLYTIC (FIXED) CAPACITORS	63	63	34	92	62	60	48	36	4
C 124 C1-33 DO YOU WORK WITH PAPER (FIXED) CAPACITORS	38	38	22	91	50	60	38	23	2
C 125 C1-34 DO YOU WORK WITH MICA (FIXED) CAPACITORS	50	50	31	91	57	69	33	32	3
C 126 C1-35 DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS	63	63	37	92	57	56	44	41	8
C 127 C1-36 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF CAPACITORS	38	38	19	8	38	8	26	12	9
C 128 C2-01 DO YOU WORK WITH TRANSFORMERS IN YOUR PRESENT JOB	75	75	42	83	64	56	51	19	6
C 129 C2-02 DO YOU INSPECT TRANSFORMERS	37	31	67	60	52	19	5		
C 130 C2-03 DO YOU CLEAN TRANSFORMERS	13	13	15	53	31	32	83	18	2
C 131 C2-04 DO YOU ADJUST TRANSFORMERS	50	50	20	49	24	20	24	3	2
C 132 C2-05 DO YOU TROUBLESHOOT TRANSFORMERS	75	75	41	77	62	52	43	17	4
C 133 C2-06 DO YOU REMOVE OR REPLACE COMPLETE TRANSFORMERS	25	25	32	81	62	69	52	19	5
C 134 C2-07 DO YOU REMOVE OR REPLACE TRANSFORMER PARTS, SUCH AS THE PRIMARY WINDING	0	0	3	11	2	0	9	1	1
C 135 C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTION AND MUTUAL INDUCTANCE (M)	63	63	5	8	5	0	9	0	0
C 136 C2-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, M	25	25	5	2	2	0	3	0	0
C 137 C2-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH TRANSFORMERS	75	75	7	16	7	8	6	0	0
C 138 C2-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING CURRENT OR VOLTAGE RATIOS	75	75	10	28	28	12	8	3	1
C 139 C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH TRANSFORMERS	50	50	7	19	10	0	4	0	1
C 140 C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR TRANSFORMERS	63	63	5	10	5	0	3	0	1
C 141 C2-14 DO YOU WORK WITH AUTOTRANSFORMERS	63	63	15	75	17	16	15	3	1
C 142 C2-15 DO YOU WORK WITH POWER TRANSFORMERS	63	63	36	79	62	64	48	18	5
C 143 C2-16 DO YOU WORK WITH AUTO TRANSFORMERS	75	75	19	68	19	8	12	1	1
C 144 C2-17 DO YOU WORK WITH RADIO FREQUENCY TRANSFORMERS	75	75	22	63	19	12	3	0	0
C 145 C2-18 DO YOU WORK WITH DON'T REMEMBER WHAT TYPE OF TRANSFORMERS	38	38	12	10	21	8	22	9	2
C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY MEASURING RESISTANCE	63	63	39	61	62	56	45	13	3
C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING RESISTANCE	63	63	31	76	62	52	45	12	3
C 148 C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES	75	75	27	73	57	26	40	12	3
C 149 C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN TURNS RATIO	38	38	15	31	21	16	17	3	2
C 150 C2-23 DO YOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER WAS A STEP-UP OR STEP-DOWN TURNS RATIO	50	50	19	51	33	26	26	7	2
C 151 C2-24 DO YOU REFER TO BASIC TRANSFORMER SCHEMATIC SYMBOLS FOR TRANSFORMERS	68	68	41	69	69	69	47	17	4

## PCI MBR'S RESPONDING 'YES' BY DAESL GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SK	SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
) C 152 C2-25 DO YOU REFER TO MULTIPLE SECONDARY-WINDINGS SCHEMATIC SYMBOLS FOR TRANSFORMERS	63	63	32	78	45	52	34	9	2	
) C 153 C2-26 DO YOU REFER TO MULTIPLE TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS	63	63	31	79	55	60	38	9	1	
) C 154 C2-27 DO YOU REFER TO CENTER TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS	75	75	19	53	50	40	20	6	2	
) C 155 C2-28 DO YOU REFER TO AIR CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS	75	75	20	58	48	44	24	7	2	
) C 156 C2-29 DO YOU REFER TO IRON CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS	75	75	20	58	48	44	24	7	2	
) C 157 C2-30 DO YOU REFER TO COMBINATIONS OF THE ABOVE SCHEMATIC SYMBOLS FOR TRANSFORMERS	75	75	31	71	52	52	28	10	2	
) C 158 C2-31 DO YOU DETERMINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING SCHEMATIC SYMBOLS	88	88	25	39	36	32	15	4	2	
) C 159 C2-32 DO YOU DETERMINE OR REFER TO THE TYPE OF CORE IN TRANSFORMERS YOU WORK WITH	75	75	10	36	29	16	14	4	1	
) C 160 C2-33 DO YOU REFER TO OR USE THE GENERAL RULE THAT THE TURNS RATIO OF A TRANSFORMER IS EQUAL TO THE VOLTAGE RATIO FOR TRANSFORMERS	63	63	10	91	26	20	10	6	2	
) C 161 C2-34 DO YOU USE OR REFER TO STEP-UP OR STEP-DOWN RATIOS	75	75	14	56	33	26	16	9	2	
) C 162 C2-35 DO YOU CALCULATE VOLTAGE RATIOS FOR TRANSFORMERS USING TURNS RATIOS	63	63	8	30	21	8	6	3	1	
) C 163 C2-36 DO YOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS USING TURNS RATIOS	63	63	8	25	10	8	6	1	1	
) C 164 C2-37 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH THREE PHASE TRANSFORMERS	25	25	20	32	48	44	12	1	3	
) C 165 C2-38 DO YOU INSPECT THREE PHASE TRANSFORMERS	13	13	12	26	36	40	12	1	1	
) C 166 C2-39 DO YOU CLEAN OR LUBRICATE THREE PHASE TRANSFORMERS	0	0	5	15	10	8	0	0	0	
) C 167 C2-40 DO YOU ADJUST THREE PHASE TRANSFORMERS	13	13	7	13	10	8	6	0	1	
) C 168 C2-41 DO YOU TROUBLESHOOT THREE PHASE TRANSFORMERS	13	13	22	33	32	10	1	1	1	
) C 169 C2-42 DO YOU REMOVE OR REPLACE COMPLETE THREE PHASE TRANSFORMERS	0	0	10	23	38	46	11	1	2	
) C 170 C2-43 DO YOU REMOVE OR REPLACE THREE PHASE TRANSFORMER PARTS SUCH AS WINDINGS	0	0	3	6	2	0	5	0	0	
) C 171 C3-01 DO YOU USE OR REFER TO PERMANENT MAGNETS	75	75	36	48	19	52	28	4	3	
) C 172 C3-02 DO YOU USE OR REFER TO TEMPORARY MAGNETS	88	88	22	33	12	28	20	3	3	
) C 173 C3-03 DO YOU USE OR REFER TO RETENTIVITY OF MAGNETIC MATERIALS	63	63	10	15	5	8	8	1	1	
) C 174 C3-04 DO YOU USE OR REFER TO RELUCTANCE OF MAGNETIC MATERIALS	63	63	8	13	10	8	6	0	1	
) C 175 C3-05 DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC MATERIALS	75	75	6	16	12	12	7	1	1	
) C 176 C3-06 DO YOU USE OR REFER TO RESIDUAL MAGNETISM	63	63	0	20	10	8	7	0	1	
) C 177 C3-07 DO YOU USE OR REFER TO MAGNETIC LINES OF FORCE OR FLUX	75	75	17	25	18	28	12	0	2	
) C 178 C3-08 DO YOU USE OR REFER TO WEBER'S THEORY OF MAGNETISM	25	25	1	2	0	0	0	0	0	

PCI MBRS. RESPONDING 'YES' BY DAESG GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISM	SPC							
	80A	80B	80C	810	811	824	825	826
C 179 C3-09 DO YOU USE OR REFER TO DOMAIN THEORY OF MAGNETISM	0	0	7	4	0	0	8	0
C 180 C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION	75	75	15	22	17	16	8	1
C 181 C3-11 DO YOU USE OR REFER TO FLUX DENSITY	63	63	10	17	18	4	6	0
C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT	75	75	26	51	33	36	39	17
C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES	75	75	12	20	19	20	22	7
C 184 C3-14 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE NORTH POLE OF A CURRENT CARRYING COIL	75	75	12	17	16	16	19	7
D 185 D1-01 DO YOU WORK WITH RC, LR, RCL CIRCUITS IN YOUR PRESENT JOB	88	88	20	66	40	28	12	3
D 186 D1-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL CIRCUITS	63	63	8	19	10	12	3	0
D 187 D1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN WORKING WITH RCL CIRCUITS	50	50	7	15	12	8	2	0
D 188 D1-04 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL CIRCUITS	63	63	15	25	36	0	3	0
D 189 D1-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL CIRCUITS	63	63	15	25	36	0	3	0
D 190 D1-06 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL CIRCUITS	50	50	10	23	31	4	2	0
D 191 D1-07 DO YOU USE OR REFER TO WATTS WHEN WORKING WITH RCL CIRCUITS	88	88	17	45	36	16	8	3
D 192 D1-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING WITH RCL CIRCUITS	38	38	19	32	17	8	3	0
D 193 D1-09 DO YOU USE OR REFER TO MAXIMUM POWER (PM) WHEN WORKING WITH RCL CIRCUITS	38	38	15	34	26	8	6	0
D 194 D1-10 DO YOU USE OR REFER TO AVERAGE POWER (PANE) WHEN WORKING WITH RCL CIRCUITS	50	50	17	37	26	12	9	1
D 195 D1-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN WORKING WITH RCL CIRCUITS	25	25	12	29	10	8	3	0
D 196 D1-12 DO YOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING WITH RCL CIRCUITS	25	25	10	30	12	9	3	0
D 197 D1-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN WORKING WITH RCL CIRCUITS	75	75	10	56	29	16	5	0
D 198 D1-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH RCL CIRCUITS	88	88	15	53	31	8	5	0
D 199 D1-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH RCL CIRCUITS	75	75	19	57	31	8	2	0
D 200 D1-16 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN WORKING WITH RCL CIRCUITS	75	75	19	61	33	8	9	0
D 201 D1-17 DO YOU USE OR REFER TO HALF POWER POINTS WHEN WORKING WITH RCL CIRCUITS	63	63	10	44	19	0	2	0
D 202 D1-18 DO YOU USE OR REFER TO BANDPASS REGION WHEN WORKING WITH RCL CIRCUITS	75	75	19	57	31	8	2	0
D 203 D1-19 DO YOU USE OR REFER TO CIRCUIT Q WHEN WORKING WITH RCL CIRCUITS	63	63	8	29	19	0	2	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DT-TSK	SPC 808	SPC 809	SPC 810	SPC 811	SPC 823	SPC 825	SPC 826	SPC 827	SPC 828
) D 204 D1-20 DO YOU USE OR REFER TO TANK CIRCUITS WHEN WORKING WITH RCL CIRCUITS	75	75	15	55	33	20	6	0	0	0
) D 205 D1-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS USING FORMULAS	50	50	8	26	17	0	2	0	0	0
) D 206 D1-22 DO YOU DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR DIAGRAMS FOR CIRCUITS	63	63	8	11	7	4	9	0	0	0
) D 207 D1-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE CIRCUITS	63	63	7	21	17	4	5	1	0	0
) D 208 D1-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS	63	63	7	10	5	0	2	0	0	0
) D 209 D1-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL CIRCUITS	63	63	7	19	19	8	5	1	0	0
) D 210 D1-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL CIRCUITS	50	50	7	9	30	0	2	0	0	0
) D 211 D1-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL CIRCUITS	38	38	7	15	5	0	3	0	0	0
) D 212 D1-28 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES RCL CIRCUITS	38	38	7	17	10	0	2	0	0	0
) D 213 D1-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SERIES RCL CIRCUITS	38	38	7	16	7	0	3	0	0	0
) D 214 D1-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL CIRCUITS	63	63	7	19	10	4	6	0	0	0
) D 215 D1-31 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL CIRCUITS	50	50	7	10	7	0	2	0	0	0
) D 216 D1-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING THE ASSUMED VOLTAGE METHOD	50	50	7	12	7	0	2	0	0	0
) D 217 D1-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING OHM'S LAW	63	63	8	20	7	0	4	1	0	0
) D 218 D1-34 DO YOU CHECK CAPACITORS USING OMMETERS	88	88	22	65	95	20	15	6	1	0
) D 219 D1-35 DO YOU CHECK CAPACITORS USING SUBSTITUTION	13	13	7	60	53	0	9	0	0	0
) D 220 D1-36 DO YOU CHECK INDUCTORS USING OMMETERS	63	63	19	50	38	20	12	6	1	0
) D 221 D1-37 DO YOU CHECK INDUCTORS USING SUBSTITUTION	13	13	7	58	53	8	8	3	0	0
) D 222 D1-38 DO YOU USE OR REFER TO THE GENERAL RULE THAT $\Theta_{TA} = 0$ , $PF = 1$ , AND $PA = PT$ FOR RESONANT CIRCUITS	0	0	5	8	5	0	2	0	0	0
) D 223 D1-39 DO YOU CALCULATE RESONANT FREQUENCIES FOR RCL CIRCUITS	63	63	8	24	5	0	3	0	0	0
) D 224 D1-40 DO YOU USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT FREQUENCY FOR SERIES RCL CIRCUITS	75	75	10	26	18	4	2	0	0	0
) D 225 D1-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT FREQUENCY FOR PARALLEL RCL CIRCUITS	63	63	10	22	12	0	2	0	0	0
) D 226 D1-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK CURRENT VALUE	63	63	8	45	26	0	3	0	0	0
) D 227 D1-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO $\Omega$	63	63	7	25	12	0	2	0	0	0
) D 228 D1-44 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE ANGLES FOR RCL CIRCUITS	75	75	10	24	12	8	2	0	0	0

## PCI MEMBERS RESPONDING "YES" BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	D1-TSK							
	SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 828
D 229 D2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH, USE, OR REFER TO SERIES OR PARALLEL RESONANT CIRCUITS OR TIME CONSTANTS	50	50	19	40	26	28	6	3
D 230 D2-02 DO YOU WORK WITH, USE, OR REFER TO TIME CONSTANTS	63	63	14	36	21	20	5	1
D 231 D2-03 DO YOU WORK WITH, USE, OR REFER TO AVAILABLE VOLTAGE INTERVALS	50	50	15	23	12	20	9	3
D 232 D3-04 DO YOU WORK WITH, USE, OR REFER TO TRANSIENT TIME CONSTANTS (TC)	63	63	8	17	12	8	3	1
D 233 D2-05 DO YOU USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED (OR DISCHARGED) AFTER FIVE (5) TIME CONSTANTS (TC)	75	75	7	22	19	12	6	3
D 234 D2-06 DO YOU USE OR REFER TO UNIVERSAL TIME CONSTANT CHARTS	63	63	7	13	7	0	3	0
D 235 D2-07 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC TIME FOR RC OR LR CIRCUITS	63	63	7	11	7	4	2	3
D 236 D2-08 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO REACH SPECIFIC VALUES FOR RC OR LR CIRCUITS	63	63	7	15	7	4	2	1
D 237 D2-09 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND COMPONENT VOLTAGES TO REACH SPECIFIC VALUES IN SPECIFIC TIMES	50	50	7	12	7	9	3	1
D 238 D2-10 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (OR ZERO) AFTER FIVE (5) TIME CONSTANTS	75	75	7	15	12	4	3	1
D 239 D3-01 DO YOU WORK WITH CIRCUITS USED AS FILTERS IN YOUR PRESENT JOB	75	75	37	70	55	56	17	22
D 240 D3-02 DO YOU INSPECT FILTER CIRCUITS	50	50	20	66	45	52	15	23
D 241 D3-03 DO YOU CLEAN FILTER CIRCUITS	0	0	12	46	26	26	10	9
D 242 D3-04 DO YOU ALIGN OR ADJUST FILTER CIRCUITS	38	38	19	59	29	28	10	6
D 243 D3-05 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT LEVEL	75	75	38	63	48	48	12	19
D 244 D3-06 DO YOU TROUBLESHOOT TO COMPONENT PARTS	25	25	19	66	36	36	11	13
D 245 D3-07 DO YOU REMOVE OR REPLACE THE COMPLETE FILTER CIRCUIT PARTS	13	13	29	61	48	40	13	25
D 246 D3-08 DO YOU REMOVE OR REPLACE FILTER CIRCUIT COMPONENT PARTS	13	13	19	63	31	52	12	10
D 247 D3-09 DO YOU WORK WITH LOW PASS FILTERS	30	30	15	67	43	28	6	1
D 248 D3-10 DO YOU WORK WITH HIGH PASS FILTERS	38	38	15	65	43	24	7	3
D 249 D3-11 DO YOU WORK WITH BANDPASS FILTERS	75	75	17	66	33	20	9	1
D 250 D3-12 DO YOU WORK WITH BAND-REJECT FILTERS	75	75	17	66	33	20	9	0
D 251 D3-13 DON'T REMEMBER WHICH TYPE OF FILTER YOU WORK WITH	63	63	14	57	29	16	3	0
D 252 D3-14 DO YOU WORK WITH L-SECTION FILTER CONFIGURATION	50	50	19	11	21	20	10	17
D 253 D3-15 DO YOU WORK WITH T-SECTION FILTER CONFIGURATION	63	63	8	51	19	20	4	1
D 254 D3-16 DO YOU WORK WITH PI-SECTION FILTER CONFIGURATION	63	63	8	53	10	20	3	1
D 255 D3-17 DON'T REMEMBER WHICH TYPE FILTER CONFIGURATION	50	50	7	53	7	8	3	0
D 256 D3-18 DO THE FILTERS YOU WORK WITH USE PARALLEL RESONANT CIRCUITS	75	75	17	45	29	28	6	4
D 257 D3-19 DO THE FILTERS YOU WORK WITH USE SERIES-PARALLEL CIRCUITS	63	63	20	45	31	32	8	6
D 258 D3-20 DO THE FILTERS YOU WORK WITH USE SERIES RESONANT CIRCUITS	75	75	15	45	29	28	5	1

## PCT MRS RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	SPC 808	SPC 809	SPC 810	SPC 811	SPC 820	SPC 825	SPC 826	SPC 827	SPC 828
) D 259 D3-21 DON'T REMEMBER WHICH TYPE OF BASIC CIRCUIT	38	38	20	28	29	28	10	7	1
) D 260 D3-22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC	38	38	5	15	10	4	4	1	0
) FILTERS									
) E 261 E1-01 DO YOU WORK WITH COUPLING DEVICES IN YOUR PRESENT JOB	75	75	20	66	95	98	9	6	2
) E 262 E1-02 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH RC COUPLING	75	75	22	64	33	90	7	6	1
) E 263 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH IMPEDANCE COUPLING	75	75	19	58	33	32	7	3	1
) E 264 E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH TRANSFORMER COUPLING	75	75	17	63	36	32	8	9	1
) E 265 E1-05 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM RC COUPLING	75	75	22	63	36	48	6	4	1
) E 266 E1-06 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM IMPEDANCE COUPLING	63	63	17	57	36	40	6	3	1
) E 267 E1-07 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM TRANSFORMER COUPLING	75	75	17	61	43	36	7	4	1
) E 268 E1-08 DO YOU WORK WITH DIRECTLY COUPLED CIRCUITS	75	75	19	62	36	40	6	8	1
) E 269 E1-09 DO YOU WORK WITH CAPACITIVE-RESISTIVE COUPLED CIRCUITS	75	75	17	63	31	48	6	9	1
) E 270 E1-10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED CIRCUITS	75	75	12	58	29	48	5	3	0
) E 271 E1-11 DO YOU WORK WITH TRANSFORMER COUPLED CIRCUITS	75	75	15	60	38	28	6	3	1
) E 272 E1-12 DON'T REMEMBER WHICH TYPE OF COUPLING CIRCUITS	25	25	7	8	17	8	5	0	1
) E 273 E2-01 IN YOUR PRESENT JOB, DO YOU PERFORM SOLDERING TECHNIQUES OR INSPECT OR EVALUATE SOLDERED CONNECTIONS	63	63	75	89	93	76	89	88	31
) E 274 E2-02 DO YOU SELECT TYPE OF SOLDER TO USE	63	63	59	78	79	56	85	61	26
) E 275 E2-03 DO YOU ADD FLUX TO CONNECTIONS	63	63	54	81	93	60	87	80	20
) E 276 E2-04 DO YOU CLEAN CONNECTIONS USING SOLVENTS	63	63	53	83	95	56	73	71	28
) E 277 E2-05 DO YOU STRIP INSULATION FROM WIRES	63	63	73	91	95	72	91	93	33
) E 278 E2-06 DO YOU CONNECT OR DISCONNECT HEAT SINKS	63	63	49	89	83	72	80	66	22
) E 279 E2-07 DO YOU BEND OR SHAPE WIRES OR LEADS	63	63	71	95	72	90	88	50	
) E 280 E2-08 DO YOU CUT WIRES	63	63	75	91	95	72	91	91	33
) E 281 E2-09 DO YOU FILE OR SHAPE SOLDERING IRON TIPS	50	50	53	67	81	69	86	72	21
) E 282 E2-10 DO YOU TIN SOLDERING IRON TIPS	63	63	71	68	95	72	88	88	21
) E 283 E2-11 DO YOU CLEAN SOLDERING IRON TIPS	63	63	71	90	93	72	90	90	29
) E 284 E2-12 DO YOU CLEAN ELECTRICAL SURFACES USING ERASERS	50	50	51	85	79	56	51	55	19
) E 285 E2-13 DO YOU TIN OR PRE-TIN CONDUCTORS	63	63	66	89	93	68	70	75	16
) E 286 E2-14 DO YOU INSPECT SOLDERED CONNECTIONS	63	63	73	90	95	72	91	91	31
) E 287 E2-15 DO YOU DESOLDER CONNECTIONS BY WICKING	63	63	92	63	79	60	51	69	15
) E 288 E2-16 DO YOU DESOLDER CONNECTIONS USING VACUUM DESOLDERING TOOLS	50	50	51	86	86	68	33	75	13
) E 289 E2-17 DO YOU CUT COMPONENT LEADS TO REMOVE COMPONENTS	50	50	46	73	67	52	68	61	21
) E 290 E2-18 DO YOU CRUSH COMPONENTS FOR REMOVAL	38	38	17	31	19	32	16	19	6

## PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC							
	808	809	All	811	828	825	826	827
E 291 EZ-19 DO YOU MAKE HARDWIRE CONNECTIONS	63	63	63	87	86	64	75	62
E 292 EZ-20 DO YOU MAKE PRINTED CIRCUIT BOARD CONNECTIONS	63	63	19	91	79	64	69	71
E 293 EZ-21 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS OR CAPACITORS ON PRINTED CIRCUIT BOARDS	50	50	19	91	71	64	69	71
E 294 EZ-22 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS	38	38	19	90	69	64	61	70
E 295 EZ-01 DO YOU WORK WITH RELAYS ON YOUR PRESENT JOB	100	100	68	72	71	72	73	68
E 296 EZ-02 DO YOU ADJUST RELAYS	25	25	20	46	33	20	54	26
E 297 EZ-03 DO YOU CLEAN RELAYS	13	13	17	62	43	36	71	42
E 298 EZ-04 DO YOU INSPECT RELAYS	63	63	46	69	71	48	75	59
E 299 EZ-05 DO YOU REMOVE OR REPLACE COMPLETE RELAYS	38	38	37	24	62	68	73	68
E 300 EZ-06 DO YOU REMOVE OR REPLACE PARTS OR RELAYS	25	25	10	26	17	20	40	14
E 301 EZ-07 DO YOU TROUBLESHOOT RELAYS	63	63	69	67	71	69	62	28
E 302 EZ-08 DO YOU STRAIGHTEN RELAY CONTACTS	13	13	20	56	40	16	66	36
E 303 EZ-09 DO YOU PERFORM TASKS ON RELAY CONTACTS	38	38	12	59	31	24	69	35
E 304 EZ-10 DO YOU PERFORM TASKS ON RELAY CORES	25	25	5	16	5	3	21	9
E 305 EZ-11 DO YOU PERFORM TASKS ON RELAY COILS	38	38	8	22	5	4	27	13
E 306 EZ-12 DO YOU PERFORM TASKS ON RELAY ARRATURES	25	25	5	23	10	9	31	13
E 307 EZ-13 DO YOU PERFORM TASKS ON RELAY SPRINGS	25	25	5	36	17	8	59	16
E 308 EZ-14 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY OPEN (NO), SCHEMATIC SYMBOLS FOR RELAYS	100	100	54	60	79	64	58	51
E 309 EZ-15 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY CLOSED (NC) SCHEMATIC SYMBOLS FOR RELAYS	100	100	54	60	79	64	57	51
E 310 EZ-16 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPDT) SCHEMATIC SYMBOLS FOR RELAYS	68	68	51	60	79	56	55	48
E 311 EZ-17 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (DPDT) SCHEMATIC SYMBOLS FOR RELAYS	68	68	53	59	79	56	55	51
E 312 EZ-18 DO YOU USE OR REFER TO OTHER RELAY SYMBOLS SCHEMATIC SYMBOLS FOR RELAYS	75	75	63	64	62	60	51	38
E 313 EZ-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE	88	88	58	54	74	52	46	42
F 314 F1-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH MICROPHONES	25	25	7	11	2	4	9	0
F 315 F1-02 DO YOU INSPECT MICROPHONES	13	13	3	9	2	2	2	1
F 316 F1-03 DO YOU CLEAN MICROPHONES	0	0	2	6	2	2	0	3
F 317 F1-04 DO YOU OPERATE MICROPHONES	25	25	7	12	2	2	2	16
F 318 F1-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS OR MICROPHONES	13	13	5	8	2	2	0	6
F 319 F1-06 DO YOU TROUBLESHOOT DOWN TO MICROPHONE PARTS	13	13	2	8	0	0	2	1
F 320 F1-07 DO YOU REMOVE OR REPLACE COMPLETE MICROPHONES	0	0	3	9	2	4	3	0
F 321 F1-08 DO YOU REMOVE OR REPLACE MICROPHONE PARTS	13	13	2	8	0	0	2	0
F 322 F1-09 DO YOU PERFORM TASKS ON CARBON MICROPHONES	13	13	2	5	0	0	2	1
F 323 F1-10 DO YOU PERFORM TASKS ON CAPACITOR MICROPHONES	13	13	2	5	0	0	2	0
F 324 F1-11 DO YOU PERFORM TASKS ON CRYSTAL MICROPHONES	13	13	2	5	0	0	2	1
F 325 F1-12 DO YOU PERFORM TASKS ON DYNAMIC MICROPHONES	0	0	2	7	2	0	3	2
F 326 F1-13 DO YOU PERFORM TASKS ON VELOCITY RIBBON MICROPHONES	0	0	2	0	1	0	1	0

) TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TASK	SPC								
	808	809	810	811	820	825	826	827	828
) F 327 F2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH SPEAKERS	38	38	7	17	2	9	29	0	9
) F 328 F2-02 DO YOU INSPECT SPEAKERS	25	25	3	19	2	5	30	0	1
) F 329 F2-03 DO YOU CLEAN SPEAKERS	13	13	2	10	2	8	27	0	1
) F 330 F2-04 DO YOU OPERATE SPEAKERS	50	50	3	16	2	4	28	0	4
) F 331 F2-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT PARTS OF SPEAKERS	25	25	7	14	2	0	29	0	2
) F 332 F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER PARTS	25	25	2	3	0	0	13	0	0
) F 333 F2-07 DO YOU REMOVE OR REPLACE COMPLETE SPEAKERS	0	0	3	14	2	0	25	0	1
) F 335 F2-09 DO YOU PERFORM ANY TASKS ON SPEAKER CONES	0	0	2	2	0	0	9	0	1
) F 336 F2-10 DO YOU PERFORM ANY TASKS ON SPEAKER SPIDERS	13	13	2	1	0	0	7	0	1
) F 337 F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER FIELD COILS	25	25	2	1	0	0	2	0	0
) F 338 F2-12 DO YOU PERFORM ANY TASKS ON SPEAKER VOICE COILS	25	25	2	2	0	0	3	0	0
) F 339 F2-13 DO YOU PERFORM ANY TASKS ON SPEAKER PERMANENT MAGNETS	13	13	3	2	0	4	4	0	0
) F 340 F2-14 DO YOU PERFORM ANY TASKS ON SPEAKER ELECTROMAGNETS	13	13	3	2	0	0	3	0	0
) F 341 F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER SOFT IRON CORES	13	13	3	1	0	0	3	0	0
) F 392 F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRESENT JOB	68	98	86	89	93	68	28	20	4
) F 393 F3-02 DO YOU USE OSCILLOSCOPES TO PERFORM OPERATIONAL CHECKS	100	100	85	89	90	66	24	23	4
) F 394 F3-03 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR ADJUSTMENTS	100	100	85	88	88	60	20	22	3
) F 395 F3-04 DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC CIRCUITS	100	100	85	88	83	60	25	22	8
) F 346 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY	100	100	80	83	90	56	19	20	3
) F 347 F3-06 DO YOU USE OSCILLOSCOPES TO MEASURE TIME	88	88	69	83	90	60	13	16	3
) F 348 F3-07 DO YOU USE OSCILLOSCOPES TO OBSERVE LISAJOUS PATTERNS	25	25	56	69	29	16	10	6	2
) F 349 F3-08 DO YOU USE OSCILLOSCOPES TO OBSERVE SIGNALS WHILE UTILIZING ATTENUATOR PROBES	63	63	80	88	86	60	15	7	3
) F 350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME MEASUREMENTS USING DELAY TIME MULTIPLEXERS	38	38	41	71	79	48	9	9	2
) F 351 F3-10 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE	68	68	68	89	86	56	28	19	4
) F 352 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE OR OBSERVE SIGNALS AFTER FIRST ADJUSTING THE GAIN AND DC BAL CONTROLS	68	68	68	76	87	79	32	10	2
) F 353 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE DC VOLTAGE	68	68	68	83	90	52	23	19	3
) F 354 F3-13 DO YOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT JOB	63	63	32	91	74	66	45	68	7
) F 355 F3-14 DO YOU INSPECT DIODES	50	50	27	69	68	56	43	68	6
) F 356 F3-15 DO YOU REMOVE OR REPLACE DIODES	13	13	15	89	71	68	99	67	6
) F 357 F3-16 DO YOU CHECK DIODES USING AN INSTRUMENT	63	63	29	89	67	68	40	72	6
) F 358 F3-17 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH DIODES	38	38	8	19	18	0	9	3	1
) F 359 F3-18 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, TOGETHER WITH VALUES OF FORWARD AND REVERSE BIAS VOLTAGE, TO COMPUTE FORWARD OR REVERSE LIAS RESISTANCE	50	50	10	19	19	0	10	7	1
) F 360 F3-19 DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR DIODES	63	63	12	30	21	12	19	16	2

PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-1SK

| SPC |
|-----|-----|-----|-----|-----|-----|-----|-----|
| 808 | 809 | 810 | 811 | 823 | 825 | 826 | 827 |
| 828 |     |     |     |     |     |     |     |

6 361 61-06 DO YOU USE OR REFER TO THE GENERAL RULE THAT TEMPERATURE CAN AFFECT THE OPERATION OF DIODES 75 75 14 67 45 94 31 81 9

6 362 61-09 DO YOU IDENTIFY SEMICONDUCTOR DIODES AS OPPOSED TO OTHER ELECTRONIC COMPONENTS, SUCH AS RESISTORS, BASED ON THEIR PHYSICAL APPEARANCE 63 63 8 16 17 4 8 3 1

6 363 61-10 DO YOU REFER TO OR DO YOU DETERMINE THE GENERAL EFFECTS OF DOPING ON CURRENT FLOW 63 63 8 16 17 4 8 3 1

6 364 61-11 DO YOU USE OR REFER TO MEASUREMENTS OF FORWARD BIAS RESISTANCE 75 75 15 75 52 32 29 29 3

6 365 61-12 DO YOU USE OR REFER TO DIODE COLOR CODING 68 68 8 44 36 32 28 19 3

6 366 61-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS 50 50 5 2 10 0 9 0 0

6 367 61-14 DO YOU USE OR REFER TO CENTRIPETAL FORCE OF AN ELECTRON IN ORBIT AROUND A NUCLEUS 50 50 7 2 10 0 9 0 0

6 368 61-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH AS IN 538 63 63 17 75 52 56 25 92 3

6 369 61-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON MOVING IN ORBIT 50 50 5 2 7 0 9 0 0

6 370 61-17 DO YOU USE OR REFER TO POTENTIAL ENERGY OF AN ELECTRON MOVING IN ORBIT 50 50 5 3 7 0 9 0 0

6 371 61-18 DO YOU USE OR REFER TO MEASUREMENTS OF REVERSE BIAS RESISTANCE 75 75 20 73 48 32 18 28 2

6 372 61-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A PARTICULAR SHELL OF ORBIT 63 63 7 4 7 0 5 0 0

6 373 61-20 DO YOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF AN ORBITING ELECTRON 75 75 5 3 10 0 8 0 0

6 374 61-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN ORBITING ELECTRON 75 75 7 3 7 0 8 0 0

6 375 61-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN THE OUTERMOST SHELL) 75 75 7 6 10 0 5 0 0

6 376 61-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF ELECTRONS IN ATOM) 50 50 5 6 10 0 6 0 0

6 377 61-24 DO YOU USE OR REFER TO SYMBOLS ON THE DIODE WHICH INDICATE THE CATHODE END 68 68 24 82 62 52 35 48 4

6 378 61-25 DO YOU NEED TO KNOW WHICH MATERIALS ARE USED IN THE CONSTRUCTION OF DIODES SUCH AS GERMANIUM OR SILICON 50 50 5 49 31 12 13 11 2

6 379 61-26 DO YOU NEED TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE TEMPERATURE COEFFICIENTS OF RESISTANCE (AS TEMPERATURE INCREASES RESISTANCE DECREASES) 75 75 3 52 43 28 16 12 2

6 380 61-27 DO YOU USE OR REFER TO PN JUNCTION DIODE CHARACTERISTIC CURVES, SUCH AS VOLTAGE - CURRENT POINTS OF STRUCTURAL BREAKDOWN OR OPERATING REGIONS; 63 63 2 39 17 16 8 1 2

6 381 61-28 DO YOU DETERMINE WHETHER PN JUNCTION DIODES ARE FORWARD BIASED OR REVERSE BIASED WHEN YOU READ OR INTERPRET CIRCUIT DIAGRAMS 68 68 12 66 60 44 15 28 3

6 382 61-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR MATERIALS 63 63 5 6 12 0 6 6 C 1

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-TASK	SPC 808	SPC 809	SPC 810	SPC 811	SPC 828	SPC 825	SPC 826	SPC 827	SPC 828
)	6 383 61-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS	63	63	3	4	12	0	6	0	0
)	6 384 61-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS	63	63	3	7	14	0	6	1	0
)	6 385 61-32 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTOR MATERIALS	50	50	3	5	12	0	6	0	0
)	6 386 61-33 DO YOU USE OR REFER TO ELECTRON-HOLE PAIR CREATED IN SEMICONDUCTORS	63	63	3	5	19	0	5	1	0
)	6 387 61-34 DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN SEMICONDUCTORS	63	63	10	15	26	4	7	4	1
)	6 388 61-35 DO YOU USE OR REFER TO DONOR IMPURITY IN SEMICONDUCTORS	63	63	3	6	12	4	6	0	0
)	6 389 61-36 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN SEMICONDUCTORS	63	63	3	6	12	4	7	0	0
)	6 390 61-37 DO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL	75	75	7	34	33	20	16	10	1
)	6 391 61-38 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL	75	75	7	33	33	16	15	10	1
)	6 392 61-39 DO YOU USE OR REFER TO MAJORITY CARRIERS IN SEMICONDUCTORS	63	63	3	10	18	6	6	0	1
)	6 393 61-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN SEMICONDUCTORS	63	63	3	10	19	4	6	0	1
)	6 394 61-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS	63	63	3	8	18	0	5	0	0
)	6 395 61-42 DO YOU USE OR REFER TO DEPLETION REGION IN SEMICONDUCTORS	63	63	3	9	17	0	6	0	0
)	6 396 61-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL	63	63	3	9	12	4	6	1	1
)	6 397 61-44 DO YOU USE OR REFER TO THE 10:1 BACK TO FRONT RESISTANCE RATIO FOR DIODES	50	50	15	88	31	16	12	20	1
)	6 398 61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN SEMICONDUCTORS	63	63	3	9	7	0	0	1	0
)	6 399 61-46 DO YOU USE OR REFER TO DIODE SUBSTITUTION INFORMATION	25	25	7	77	33	24	18	23	1
)	6 400 61-47 DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD CURRENT DIODE RATINGS	50	50	5	47	28	16	11	4	1
)	6 401 61-48 DO YOU USE OR REFER TO PEAK RECURRENT FORWARD CURRENT DIODE RATINGS	50	50	5	37	29	12	9	3	1
)	6 402 61-49 DO YOU USE OR REFER TO MAXIMUM SURGE CURRENT DIODE RATINGS	38	38	3	45	28	8	10	6	1
)	6 403 61-50 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE DIODE RATINGS	75	75	3	56	28	8	10	7	1
)	6 404 62-01 DO YOU WORK WITH TRANSISTORS IN YOUR PRESENT JOB.	68	68	32	90	69	60	50	98	5
)	6 405 62-02 DO YOU INSPECT TRANSISTORS	63	63	22	87	71	56	48	96	5
)	6 406 62-03 DO YOU REMOVE OR REPLACE TRANSISTORS	13	13	10	88	68	68	47	96	9
)	6 407 62-04 DO YOU CHECK TRANSISTORS USING AN INSTRUMENT AND REVERSE RESISTANCE MEASUREMENTS	75	75	28	89	68	45	95	9	9
)	6 408 62-05 DO YOU USE OR REFER TO Emitter - Base (EB) FORWARD	68	68	17	87	67	72	39	38	3
)	6 409 62-06 DO YOU USE OR REFER TO COLLECTOR - BASE (CB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	75	75	17	86	69	68	38	35	3

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISM	AF HUMAN RESOURCES LABORATORY								
		SPC 808	SPC 809	SPC 810	SPC 811	SPC 828	SPC 825	SPC 826	SPC 827	SPC 828
)	6 410 62-07 DO YOU USE OR REFER TO Emitter - Collector (EC) RESISTANCE MEASUREMENTS	75	75	15	85	69	68	38	33	3
)	6 411 62-08 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE Emitter - Base JUNCTION	75	75	10	25	38	24	19	9	1
)	6 412 62-09 DO YOU USE OR REFER TO HOW BIASING AFFECTS THE PHYSICAL BARRIER WIDTH OF THE COLLECTOR - BASE JUNCTION	63	63	10	25	36	28	19	9	1
)	6 413 62-10 DO YOU USE OR REFER TO THE PHYSICAL SIZE OF THE TRANSISTOR STRUCTURE (COLLECTOR, BASE AND Emitter)	75	75	10	59	48	40	28	14	2
)	6 414 62-11 DO YOU USE OR REFER TO LEAKAGE CURRENT (ICBO) IN A TRANSISTOR	63	63	7	32	26	8	17	6	1
)	6 415 62-12 DO YOU USE OR REFER TO TRANSISTOR SCHEMATIC SYMBOLS	88	88	27	91	78	68	49	46	5
)	6 416 62-13 DO YOU USE OR REFER TO TRANSISTOR NOTATION SUCH AS Q1, Q2, Q3, ETC	88	88	29	91	76	68	45	43	3
)	6 417 62-14 DO YOU USE OR REFER TO TRANSISTOR SUBSTITUTION INFORMATION	38	38	8	83	45	32	28	23	1
)	6 418 62-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE TRANSISTOR BASE CURRENT IB IS NORMALLY SIGNIFICANTLY SMALLER THAN THE Emitter CURRENT IE (USUALLY IB BEING 2 TO 8 PERCENT OF IE)	63	63	10	38	31	20	17	10	1
)	6 419 62-16 DO YOU USE THE INFORMATION THAT THE EFFECT OF Emitter BASE VOLTAGE ON BASE CURRENT IS THE CONTROLLING FACTOR FOR TRANSISTORS	88	88	10	53	48	32	18	16	2
)	6 420 62-17 DO YOU USE THE GENERAL RULE THAT LEAKAGE CURRENT (ICBO) IN A TRANSISTOR INCREASES AS TEMPERATURE INCREASES	75	75	5	28	29	29	15	3	1
)	6 421 62-18 DO YOU USE OR REFER TO TRANSISTOR CHARACTERISTIC CURVES	63	63	3	49	17	12	9	1	1
)	6 422 62-19 DO YOU USE OR REFER TO BETA TRANSISTOR GAINS	63	63	7	21	21	8	6	1	1
)	6 423 62-20 DO YOU USE OR REFER TO ALPHA TRANSISTOR GAINS	63	63	5	17	21	4	6	1	1
)	6 424 62-21 DO YOU USE OR REFER TO GAMMA TRANSISTOR GAINS	63	63	5	13	19	0	6	1	1
)	6 425 62-22 DO YOU CALCULATE BETA TRANSISTOR GAINS	63	63	3	10	12	4	4	0	1
)	6 426 62-23 DO YOU CALCULATE ALPHA TRANSISTOR GAINS	63	63	3	8	12	0	4	0	1
)	6 427 62-24 DO YOU CALCULATE GAMMA TRANSISTOR GAINS	50	50	3	6	12	4	4	0	1
)	6 428 63-01 DO YOU WORK WITH TRANSISTOR AMPLIFIERS IN YOUR PRESENT JOB	88	88	29	78	50	49	19	9	1
)	6 429 63-02 DO YOU INSPECT TRANSISTOR AMPLIFIERS	39	39	17	76	50	40	18	3	1
)	6 430 63-03 DO YOU ALIGN OR ADJUST TRANSISTOR AMPLIFIERS	25	25	24	73	38	28	10	3	0
)	6 431 63-04 DO YOU TROUBLESHOOT TO THE AMPLIFIER CIRCUIT LEVEL	50	50	25	77	55	49	15	9	1
)	6 432 63-05 DO YOU TROUBLESHOOT TO AMPLIFIER COMPONENTS	38	38	19	76	65	32	16	5	1
)	6 433 63-06 DO YOU REMOVE OR REPLACE THE COMPLETE AMPLIFIER	13	13	19	67	50	44	17	4	1
)	6 434 63-07 DO YOU REMOVE OR REPLACE AMPLIFIER COMPONENTS	0	0	8	75	38	36	16	5	1
)	6 435 63-08 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A CHANGE IN BASE CURRENT	75	75	10	42	31	16	7	0	1
)	6 436 63-09 DO YOU USE OR REFER TO (COMMON Emitter) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN COLLECTOR CURRENT WHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT	63	63	5	17	19	12	4	0	0

## PCI MBRs RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISM	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
) 6 437 63-10 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE CURRENT	75	75	7	91	26	20	6	0	0	0	0
) 6 438 63-11 DO YOU USE OR REFER TO (COMMON Emitter) THE COLLECTOR VOLTAGE WHICH RESULTS FROM A SPECIFIC CHANGE IN BASE CURRENT	63	63	5	17	19	8	4	1	0	0	0
) 6 439 63-12 DO YOU USE OR REFER TO (COMMON Emitter) THE CHANGE IN BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN BASE CURRENT WHICH RESULTS FROM A SPECIFIC INPUT SIGNAL	75	75	8	37	29	20	6	0	0	0	0
) 6 440 63-13 DO YOU USE OR REFER TO (COMMON Emitter) THE BASE CURRENT WHICH RESULTS FROM THE LOAD-LINE METHOD OF ANALYSIS IN YOUR CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A LOAD-LINE ON A TRANSISTOR CHARACTERISTIC CURVE)	63	63	3	18	17	12	4	0	0	0	0
) 6 442 63-15 DO YOU USE OR REFER TO THE OPERATING POINT Q (QUIESCENT POINT) FOR A TRANSISTOR	63	63	5	27	19	12	7	0	0	0	0
) 6 443 63-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR A PARTICULAR TRANSISTOR	38	38	3	7	10	0	4	1	0	0	0
) 6 444 63-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON Emitter Configuration	75	75	17	62	36	40	10	1	0	0	0
) 6 445 63-18 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON Emitter Configuration	63	63	19	39	26	28	8	1	0	0	0
) 6 446 63-19 DO YOU MEASURE POWER GAIN USED IN THE COMMON Emitter Configuration	75	75	17	37	26	24	9	1	0	0	0
) 6 447 63-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE-EMITTER VOLTAGE INTO THE CHANGE THE BASE COLLECTOR VOLTAGE TO DETERMINE THE VOLTAGE GAIN	63	63	3	15	12	0	4	0	0	0	0
) 6 448 63-21 DO YOU CALCULATE THE CURRENT GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE IN BASE CURRENT INTO THE CHANGE IN COLLECTOR CURRENT TO DETERMINE THE CURRENT GAIN	75	75	3	12	10	0	4	0	0	0	0
) 6 449 63-22 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA THAT IS, DO YOU MULTIPLY THE CURRENT GAIN TIMES THE VOLTAGE GAIN TO DETERMINE THE POWER GAIN	63	63	5	10	7	0	3	0	0	0	0
) 6 450 63-23 DO YOU NEED TO KNOW THAT MORE COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS TEMPERATURE INCREASES (THIS AFFECTS THE STATIC OPERATING POINT [Q <sub>0</sub> ] OF THE TRANSISTOR)	50	50	2	18	19	4	4	0	0	0	0
) 6 451 63-24 DO YOU COMPUTE THE STATIC OPERATING POINT [Q <sub>0</sub> ] OF A TRANSISTOR AT DIFFERENT TEMPERATURES	25	25	2	4	5	4	3	0	0	0	0
) 6 452 63-25 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH Emitter (Swamping) Resistor Stabilization	63	63	5	37	33	16	6	0	0	0	0
) 6 453 63-26 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH Self-Bias Stabilization	63	63	5	38	29	12	5	0	0	0	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DI-TSK	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	R08	R09	R10	R11	R24	R25	R26
6 454 63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS, AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH THERMISTOR STABILIZATION	50	50	3	38	31	12	7
) 6 455 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH FORWARD BIAS DIODE STABILIZATION	50	50	7	40	31	16	6
) 6 456 63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS, AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH REVERSE BIAS DIODE STABILIZATION	50	50	5	38	31	16	6
) 6 457 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH DOUBLE DIODE STABILIZATION	38	38	3	32	26	12	7
) 6 458 63-31 DO YOU TROUBLESHOOT CIRCUITS, WHICH HAVE COMPONENTS WHICH PERFORM Emitter (swapping) RESISTOR STABILIZATION	63	63	12	97	31	20	6
) 6 459 63-32 DO YOU TROUBLESHOOT CIRCUITS, WHICH HAVE COMPONENTS WHICH PERFORM SELF-BIAS STABILIZATION	38	38	12	48	29	16	6
) 6 460 63-33 DO YOU TROUBLESHOOT CIRCUITS, WHICH HAVE COMPONENTS WHICH PERFORM THERMISTOR STABILIZATION	50	50	10	50	33	12	8
) 6 461 63-34 DO YOU TROUBLESHOOT CIRCUITS, WHICH HAVE COMPONENTS WHICH PERFORM FORWARD BIAS DIODE STABILIZATION	50	50	12	42	31	20	7
) 6 462 63-35 DO YOU TROUBLESHOOT CIRCUITS, WHICH HAVE COMPONENTS WHICH PERFORM REVERSE BIAS DIODE STABILIZATION	63	63	10	99	31	20	7
) 6 463 63-36 DO YOU TROUBLESHOOT CIRCUITS, WHICH HAVE COMPONENTS WHICH PERFORM DOUBLE DIODE STABILIZATION	25	25	8	92	28	16	6
) 6 464 63-37 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR CIRCUITS	50	50	15	62	33	20	5
) 6 465 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF AMPLITUDE DISTORTION	63	63	19	66	40	20	7
) 6 466 63-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS	88	88	17	58	33	20	6
) 6 467 63-40 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS	88	88	15	35	31	16	9
) 6 468 63-41 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION	63	63	17	34	29	12	9
) 6 469 63-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF FREQUENCY DISTORTION	63	63	12	52	31	16	5
) 6 470 63-43 DO YOU NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE CIRCUIT CAUSED BY CHANGING Emitter RESISTANCE FOR TRANSISTOR AMPLIFIERS IN THE COMMON COLLECTOR CONFIGURATION	63	63	5	27	21	8	1
) 6 471 63-44 DO YOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	75	75	7	36	28	12	1
) 6 472 63-45 DO YOU TROUBLESHOOT OR REPAIR PARALLEL AMPLIFIERS	50	50	15	60	12	12	0
) 6 473 63-46 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	75	75	27	75	33	12	1
) 6 474 63-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY CIRCUITS	25	5	55	28	16	2	0
) 6 475 63-48 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS	63	63	10	55	28	12	0

PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DT-ISK	SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
)										
)	6 476 63-49 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED AMPLIFIERS	63	63	12	69	24	12	3	0	0
)	H 477 H1-01 DO YOU USE OR REFER TO VARACTORS	63	63	7	39	19	9	7	0	1
)	H 478 H1-02 DO YOU USE OR REFER TO TUNNEL DIODES	63	63	10	74	21	20	7	3	1
)	H 479 H1-03 DO YOU USE OR REFER TO FIELD-EFFECT TRANSISTORS (FET'S)	63	63	10	80	50	44	19	0	1
)	H 480 H1-04 DO YOU USE OR REFER TO UNIJUNCTION TRANSISTORS	75	75	10	70	48	52	14	14	1
)	H 481 H1-05 DO YOU USE OR REFER TO ZENER DIODES	75	75	31	90	76	60	46	93	3
)	H 482 H1-06 DO YOU USE OR REFER TO INTEGRATED CIRCUITS	75	75	37	86	74	60	45	35	7
)	H 483 H2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES	100	100	68	86	74	69	50	12	20
)	H 484 H2-02 DO YOU INSPECT POWER SUPPLIES	50	50	42	85	71	64	46	13	16
)	H 485 H2-03 DO YOU CLEAN POWER SUPPLIES	13	13	12	73	50	56	93	9	6
)	H 486 H2-04 DO YOU ALIGN OR ADJUST POWER SUPPLIES	63	63	37	85	74	98	32	3	7
)	H 487 H2-05 DO YOU TROUBLESHOOT TO POWER SUPPLY COMPONENTS	50	50	58	85	62	64	38	10	6
)	H 488 H2-06 DO YOU TROUBLESHOOT TO POWER SUPPLY COMPONENTS	63	63	92	85	55	56	35	12	9
)	H 489 H2-07 DO YOU REMOVE OR REPLACE COMPLETE POWER SUPPLIES	25	25	63	74	71	68	36	12	10
)	H 490 H2-08 DO YOU REMOVE OR REPLACE POWER SUPPLY COMPONENTS	13	13	20	84	50	60	39	9	6
)	H 491 H2-09 DO YOU WORK WITH HALF-WAVE RECTIFIERS	75	75	24	83	52	40	25	1	1
)	H 492 H2-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER THAN BRIDGE RECTIFIERS	75	75	25	83	57	98	25	3	2
)	H 493 H2-11 DO YOU WORK WITH BRIDGE RECTIFIERS	75	75	29	82	62	60	32	6	2
)	H 494 H2-12 DO YOU WORK WITH THREE-PHASE RECTIFIERS	13	13	25	26	45	44	13	1	8
)	H 495 H2-13 DO YOU USE OR REFER TO INPUT VOLTAGE	88	88	49	88	62	58	37	6	9
)	H 496 H2-14 DO YOU USE OR REFER TO INPUT FREQUENCY	88	88	39	73	50	48	19	1	8
)	H 497 H2-15 DO YOU USE OR REFER TO PEAK OUTPUT VOLTAGE	88	88	48	71	60	68	23	6	6
)	H 498 H2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE	68	68	39	70	57	60	22	3	7
)	H 499 H2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE	75	75	29	81	48	36	7	1	1
)	H 500 H2-18 DO YOU USE OR REFER TO RIPPLE FREQUENCY	75	75	25	74	43	28	6	1	1
)	H 501 H2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE	75	75	20	51	40	29	12	0	1
)	H 502 H2-20 DO YOU USE OR REFER TO SHAPE OF OUTPUT WAVEFORMS	88	88	91	79	62	52	18	0	1
)	H 503 H2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE	88	88	32	76	60	98	22	6	5
)	H 504 H2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE FILTERS	75	75	28	75	45	56	19	1	2
)	H 505 H2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE FILTERS	75	75	29	68	45	52	13	1	1
)	H 506 H2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE INPUT L-TYPE FILTERS	63	63	20	64	33	44	11	1	1
)	H 507 H2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE INPUT L-TYPE FILTERS	63	63	20	62	29	36	10	1	1
)	H 508 H2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE FILTERS	75	75	12	61	28	28	6	1	1
)	H 509 H2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE FILTERS	75	75	12	64	29	32	7	1	1
)	H 510 H2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T REMEMBER WHICH TYPE OF FILTER	25	25	29	25	40	16	21	3	4
)	H 511 H2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF FILTER WITH A DIFFERENT TYPE FILTER	50	50	7	13	7	8	5	0	0
)	H 512 H3-01 DO YOU WORK WITH OSCILLATORS IN YOUR PRESENT JOB	63	63	32	78	40	28	8	0	0

## PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DV-ISM	SPC								
	B04	Ans	A10	All	B24	B25	B26	B27	B28
) H 513 H3-02 DO YOU INSPECT OSCILLATORS	38	38	19	73	36	20	7	1	0
) H 514 H3-03 DO YOU ALIGN OR ADJUST OSCILLATORS	25	25	31	74	33	24	9	1	0
) H 515 H3-04 DO YOU REMOVE OR REPLACE COMPLETE OSCILLATORS	13	13	27	64	43	24	5	0	0
) H 516 H3-05 DO YOU REMOVE OR REPLACE OSCILLATOR COMPONENTS	13	13	8	70	24	24	9	1	0
) H 517 H3-06 DO YOU TROUBLESHOOT TO OSCILLATOR CIRCUIT LEVEL	63	63	34	73	40	24	8	1	0
) H 518 H3-07 DO YOU TROUBLESHOOT TO OSCILLATOR COMPONENTS	38	38	20	72	21	29	5	1	0
) H 519 H3-08 DO YOU USE OR REFER TO FEEDBACK	75	75	29	76	43	28	9	1	0
) H 520 H3-09 DO YOU USE OR REFER TO FREQUENCY DETERMINING DEVICES	63	63	19	68	29	28	2	1	0
) (FDD)									
) H 521 H3-10 DO YOU USE OR REFER TO AMPLITUDE STABILITY	75	75	25	72	40	16	3	3	0
) H 522 H3-11 DO YOU USE OR REFER TO FREQUENCY STABILITY	75	75	27	74	45	16	2	3	0
) H 523 H3-12 DO YOU USE OR REFER TO DAMPING	63	63	19	56	31	20	3	1	0
) H 524 H3-13 DO YOU USE OR REFER TO REGENERATIVE FEEDBACK	75	75	15	72	38	28	3	1	0
) H 525 H3-14 DO YOU USE OR REFER TO PIEZOELECTRIC EFFECT	63	63	7	34	19	20	2	0	0
) H 526 H3-15 DO YOU USE OR REFER TO CRITICAL DAMPING	50	50	7	36	17	12	2	0	0
) H 527 H3-16 DO YOU USE OR REFER TO UNDER DAMPING	50	50	7	33	19	16	2	1	0
) H 528 H3-17 DO YOU USE OR REFER TO OVER DAMPING	50	50	7	38	17	16	2	1	0
) H 529 H3-18 DO YOU WORK WITH OSCILLATORS WHICH USE LC TANK	63	63	20	53	28	28	3	1	0
) CIRCUITS AS FDD									
) H 530 H3-19 DO YOU WORK WITH OSCILLATORS WHICH USE RC NETWORKS AS FDD	75	75	24	70	31	24	6	1	0
) H 531 H3-20 DO YOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS FDD	75	75	27	69	36	4	3	0	0
) H 532 H3-21 DO YOU WORK WITH OSCILLATORS WHICH USE DON'T REMEMBER WHICH TYPE OF FDD	25	25	7	13	12	8	9	0	0
) H 533 H3-22 DO YOU WORK WITH SERIES HARTLEY SINUSOIDAL OSCILLATORS	63	63	8	52	17	12	2	0	0
) H 534 H3-23 DO YOU WORK WITH SHUNT HARTLEY SINUSOIDAL OSCILLATORS	63	63	10	51	17	9	2	0	0
) H 535 H3-24 DO YOU WORK WITH COLPITTS SINUSOIDAL OSCILLATORS	75	75	8	52	12	8	2	0	0
) H 536 H3-25 DO YOU WORK WITH CLAPP SINUSOIDAL OSCILLATORS	0	0	5	26	10	8	2	0	0
) H 537 H3-26 DO YOU WORK WITH BUTLER SINUSOIDAL OSCILLATORS	0	0	2	22	5	8	2	0	0
) H 538 H3-27 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF OSCILLATORS	25	25	17	29	29	16	8	0	0
) CIRCUITS									
) I 542 11-04 DO YOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS	13	13	22	65	29	28	8	1	0
) I 543 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING CIRCUITS	63	63	34	68	43	28	6	1	0
) I 544 11-06 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING CIRCUITS	50	50	22	68	40	28	6	1	0
) I 545 11-07 DO YOU REMOVE OR REPLACE COMPLETE WAVE GENERATING OR SHAPING CIRCUITS	25	25	20	55	43	28	3	0	0
) I 546 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING COMPONENTS	13	13	8	63	33	28	3	1	0
) I 547 11-09 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN LC TANK	63	63	19	58	26	28	2	1	0

## PCT MBR'S RESPONDING "YES" BY DAESG GROUPS

SPINOS PAGE 19A

AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

		DY-1SK								
		SPC 808	SPC 809	SPC 810	SPC 811	SPC 823	SPC 825	SPC 826	SPC 827	SPC 828
)	1 548 11-10 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN RC NETWORKS	75	75	24	63	31	28	2	1	0
)	1 549 11-11 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN CRYSTALS	38	38	22	55	29	4	2	0	0
)	1 550 11-12 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN DON'T REMEMBER WHICH TYPE OF FOD	13	13	19	18	18	4	6	0	0
)	1 551 11-13 DO YOU WORK WITH ASIABLE MULTIVIBRATORS	63	63	12	60	31	36	7	1	0
)	1 552 11-14 DO YOU WORK WITH MONOSTABLE MULTIVIBRATORS	75	75	12	60	33	60	8	1	0
)	1 553 11-15 DO YOU WORK WITH BISABLE MULTIVIBRATORS	75	75	12	61	36	60	8	0	0
)	1 554 11-16 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE MULTIVIBRATORS	25	25	22	12	17	0	4	0	0
)	1 555 12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN YOUR PRESENT JOB	75	75	15	57	50	40	6	0	1
)	1 556 12-02 DO YOU WORK WITH SERIES DIODE LIMITERS	75	75	12	49	33	32	5	0	0
)	1 557 12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS	63	63	10	47	29	29	3	0	0
)	1 558 12-04 DO YOU WORK WITH LIMITERS WITH BIAS	63	63	10	44	31	28	2	0	0
)	1 559 12-05 DO YOU WORK WITH ZENER DIODE LIMITERS	39	39	10	51	31	36	8	0	0
)	1 560 12-06 DO YOU WORK WITH TRANSISTOR LIMITERS	50	50	10	48	29	40	4	0	0
)	1 561 12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF LIMITERS	13	13	10	10	29	0	8	0	0
)	1 562 12-08 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS	75	75	8	47	31	32	2	0	0
)	1 563 12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS WITH BIAS	75	75	8	45	31	32	2	0	0
)	1 564 12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CLAMPING CIRCUIT	13	13	12	13	14	0	5	0	0
)	1 565 13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH CONTAINS ELECTRON TUBES	75	75	56	69	19	4	51	1	0
)	1 566 13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD	75	75	91	84	19	0	49	1	0
)	1 567 13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUBES	75	75	39	83	7	0	41	1	0
)	1 568 13-04 DO YOU USE MULTIMETERS TO CHECK ELECTRON TUBES	50	50	28	55	10	0	31	1	0
)	1 569 13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBES	38	38	25	61	12	0	8	0	0
)	1 570 13-06 DO YOU USE SUBSTITUTION TO CHECK ELECTRON TUBES	38	38	29	86	10	0	35	0	0
)	1 571 13-07 DO YOU USE OR REFER TO CUTOFF	75	75	25	55	7	4	12	0	0
)	1 572 13-08 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE RATING	38	38	12	26	2	0	7	0	0
)	1 573 13-09 DO YOU USE OR REFER TO PEAK CURRENT RATING	38	38	15	29	0	4	12	0	0
)	1 574 13-10 DO YOU USE OR REFER TO TRANSIT TIME	50	50	10	23	0	4	6	0	0
)	1 575 13-11 DO YOU USE OR REFER TO PLATE DISSIPATION RATING	50	50	12	23	0	4	8	0	0
)	1 576 13-12 DO YOU USE OR REFER TO SATURATION	75	75	25	98	2	4	19	0	0
)	1 577 13-13 DO YOU USE OR REFER TO DC PLATE RESISTANCE	63	63	17	38	2	4	10	0	0
)	1 578 13-14 DO YOU COMPUTE ACTUAL VALUES OF THE DC PLATE RESISTANCE FOR ELECTRON TUBES	25	25	2	6	0	0	3	0	0
)	1 579 13-15 DO YOU USE OR REFER TO PLATE VOLTAGE	75	75	31	84	7	4	28	0	0
)	1 580 13-16 DO YOU USE OR REFER TO PLATE CURRENT	75	75	32	60	2	4	19	0	0
)	1 581 13-17 DO YOU USE OR REFER TO GRID VOLTAGE	75	75	32	83	10	0	28	0	0
)	1 582 13-18 DO YOU USE OR REFER TO GRID CURRENT	75	75	32	57	2	4	19	0	0
)	1 583 13-19 DO YOU USE OR REFER TO CATHODE VOLTAGE	75	75	31	83	10	0	28	0	0
)	1 584 13-20 DO YOU USE OR REFER TO CATHODE CURRENT	75	75	31	57	2	4	19	0	0
)	1 585 13-21 DO YOU USE OR REFER TO THE TRIODE AMPLIFICATION FACTOR TIME AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS THE RATIO OF CHANGE IN PLATE VOLTAGE TO A CHANGE IN GRID VOLTAGE	63	63	10	28	0	0	5	0	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DAESG	SPC R0A	SPC R0B	SPC R10	SPC R11	SPC R2A	SPC R25	SPC R26	SPC R27	SPC R28
) 1 586 13-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE AMPLIFICATION FACTORS	50	50	5	11	0	0	3	0	0	0
) 1 587 13-23 DO YOU USE OR REFER TO MULTIGRID (TETRODE, PENTODE, ETC) AMPLIFICATION FACTORS	63	63	8	25	2	0	7	0	0	0
) 1 588 13-24 DO YOU USE OR REFER TO ELECTRON TUBE TRANSCONDUCTANCE (G, WHICH IS MEASURED IN MHOS)	38	38	3	12	0	0	3	0	0	0
) 1 589 13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE TRANSCONDUCTANCES	13	13	3	7	0	0	3	0	0	0
) 1 590 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER CALLED AC PLATE RESISTANCE	38	38	5	17	0	0	3	0	0	0
) 1 591 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE RESISTANCE	25	25	2	7	0	0	3	0	0	0
) 1 592 13-28 DO YOU USE OR REFER TO ELECTRON TUBE IMMERELECTRODE CAPACITANCE	50	50	10	30	2	0	3	0	0	0
) 1 593 13-29 DO YOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR WORK WITH ELECTRON TUBES	63	63	8	19	0	0	4	0	0	0
) 1 594 13-30 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE VOLTAGE FOR A SPECIFIED BIAS	50	50	7	16	0	0	4	3	0	0
) 1 595 13-31 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE CURRENT FOR A SPECIFIED BIAS	50	50	7	14	0	0	4	3	0	0
) 1 596 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR CUTOFF	50	50	12	20	2	0	6	6	0	0
) 1 597 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR SATURATION	50	50	10	18	2	0	5	0	0	0
) 1 598 13-34 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN CURRENT FOR A SPECIFIED BIAS	75	75	38	68	5	0	11	0	0	0
) 1 599 13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER EFFICIENCY	75	75	15	40	2	0	8	0	0	0
) 1 600 13-36 DO YOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	63	63	24	63	2	0	19	1	0	0
) 1 601 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	63	63	27	52	0	0	18	1	0	0
) 1 602 13-38 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	63	63	36	62	2	0	7	0	0	0
) 1 603 13-39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	63	63	7	17	0	0	2	0	0	0
) 1 604 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH AS INPUT CAPACITANCE	25	25	0	7	0	0	4	0	0	0
) 1 605 13-41 DO YOU USE OR REFER TO TUBE SOCKET NOTATION 1 606 13-42 DO YOU USE OR REFER TO PIN NUMBERING SYSTEMS	50	50	18	83	5	0	28	0	0	0
) 1 607 13-43 DO YOU USE OR REFER TO THE TYPE OF MATERIAL OR THE OPERATING TEMPERATURE OF THE EMITTING SURFACE IN THE ELECTRON TUBES YOU WORK ON	50	50	28	86	10	0	31	0	0	0
) 1 608 13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL SUCH AS MANUALS OR CHARTS	38	38	8	78	0	0	23	0	0	0
) 1 609 13-45 DO YOU WORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUITS IN YOUR PRESENT JOB	50	50	36	80	2	0	19	0	0	0
) 1 610 13-46 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	50	50	10	32	0	0	7	0	0	0

## PCI MBR'S RESPONDING 'YES' BY DAFSC GROUPS

SPANOR PAGE 200

AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

		DY-1SK								
		SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
J 611 JI-03 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS		25	25	17	59	0	0	2	0	0
J 612 JI-04 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS		36	38	29	70	0	0	8	0	0
J 613 JI-05 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS		38	38	10	52	0	0	2	0	0
J 614 JI-06 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED AMPLIFIERS		38	38	12	63	0	0	2	0	0
J 615 JI-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE OF AMPLIFIER		13	13	19	19	2	0	11	0	0
J 616 JI-01 DO YOU WORK WITH GAS TUBES (HOT CATHODE OR COLD CATHODE)		75	75	36	72	5	0	23	0	0
J 617 JI-02 DO YOU WORK WITH CATHODE-RAY TUBES		75	75	51	71	26	12	30	1	0
J 618 JI-03 DO YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM POWER TUBES		63	63	12	21	0	0	4	0	0
J 619 JI-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM POWER TUBES ARE USED		13	13	19	33	2	0	6	0	0
J 620 JI-05 DO YOU USE OR REFER TO THE CHARACTERISTICS OF THYRATRONS		75	75	36	29	2	0	4	0	0
J 621 JI-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH THYRATRONS ARE USED		25	25	47	38	5	0	4	0	0
J 622 JI-07 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTRON GUNS OF CATHODE-RAY TUBES (CRT)		75	75	39	47	19	12	13	0	0
J 623 JI-08 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROMAGNETIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES (CRT)		75	75	32	43	17	8	13	0	0
J 624 JI-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF ELECTROSTATIC DEFLECTION SYSTEMS OF CATHODE-RAY TUBES (CRT)		75	75	26	45	17	4	11	0	0
J 625 JI-10 DO YOU USE OR REFER TO PHOSPHOR SCREENS		75	75	25	55	19	0	18	0	0
J 626 JI-11 DO YOU USE OR REFER TO AQUADAG COATINGS		63	63	17	34	5	0	5	0	0
J 627 JI-12 DO YOU USE OR REFER TO ELECTRON OPTICS		75	75	12	16	19	0	7	0	0
J 628 JI-13 DO YOU USE OR REFER TO PERSISTENCE		38	38	14	42	5	4	0	0	0
J 629 JI-14 DO YOU USE OR REFER TO DECAY TIMES		38	38	15	39	2	4	6	0	0
J 630 JI-15 DO YOU USE OR REFER TO FLUORESCENCE		38	38	15	32	2	0	10	0	0
J 631 JI-16 DO YOU USE OR REFER TO PHOSPHORESCENCE		38	38	17	39	5	4	10	0	0
J 632 JI-01 DO YOU WORK ON TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB		88	88	46	41	21	0	2	0	0
J 633 JI-02 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS		63	63	27	40	19	0	1	0	0
J 634 JI-03 DO YOU PERFORM TASKS ON FREQUENCY MIXERS		75	75	29	40	17	0	1	0	0
J 635 JI-04 DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS IN YOUR WORK WITH TRANSMIT OR RECEIVE SYSTEMS		75	75	14	33	2	0	1	0	0
J 636 JI-05 DO YOU PERFORM TASKS ON REACTANCE MODULATORS		63	63	7	19	7	0	1	0	0
J 637 JI-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS		75	75	20	35	10	0	1	0	0
J 638 JI-01 DO YOU WORK ON AN TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB		63	63	3	33	0	0	1	0	0
K 639 JI-02 DO YOU INSPECT AN TRANSMIT OR RECEIVE SYSTEMS		38	38	3	32	0	0	1	0	0
K 640 JI-03 DO YOU CLEAN AN TRANSMIT OR RECEIVE SYSTEMS		0	0	2	29	0	0	1	0	0
K 641 JI-04 DO YOU ALIGN OR ADJUST AN TRANSMIT OR RECEIVE SYSTEMS		13	13	2	32	0	0	1	0	0

**TASK GROUP SUMMARY**  
**PERCENT MEMBERS PERFORMING**

	D4-ISM	SPC		SPC		SPC		SPC		SPC	
		808	809	810	All	824	825	826	827	828	829
K 642	KI-05 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE SYSTEMS	63	63	5	31	0	0	1	0	0	0
K 643	KI-06 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE SYSTEMS	50	50	3	32	0	0	1	0	0	0
K 644	KI-07 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE SYSTEMS	13	13	2	28	0	0	1	0	0	0
K 645	KI-08 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE COMPONENTS	13	13	2	31	0	0	1	0	0	0
K 646	KI-09 DO YOU PERFORM TASKS ON RF OSCILLATORS	50	50	7	33	0	0	1	0	0	0
K 647	KI-10 DO YOU PERFORM TASKS ON RF AMPLIFIERS	50	50	8	33	0	0	1	0	0	0
K 648	KI-11 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	50	50	5	32	0	0	1	0	0	0
K 649	KI-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	50	50	5	30	0	0	1	0	0	0
K 650	KI-13 DO YOU PERFORM TASKS ON LOCAL OSCILLATORS	50	50	7	32	0	0	1	0	0	0
K 651	KI-14 DO YOU PERFORM TASKS ON IF AMPLIFIERS	50	50	8	32	0	0	1	0	0	0
K 652	KI-15 DO YOU PERFORM TASKS ON DETECTORS	50	50	7	32	0	0	1	0	0	0
K 653	KI-16 DO YOU PERFORM TASKS ON DON'T REMEMBER WHICH AM STAGE	13	13	0	3	0	0	1	0	0	0
K 654	KI-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION IN TRANSMITTERS	63	63	5	25	0	0	1	0	0	0
K 655	KI-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS	63	63	3	27	0	0	1	0	0	0
K 656	KI-19 DO YOU USE OR REFER TO SENSITIVITY OF RECEIVERS	75	75	7	30	2	0	1	0	0	0
K 657	KI-20 DO YOU USE OR REFER TO SELECTIVITY OF RECEIVERS	75	75	7	27	0	0	1	0	0	0
K 658	KI-21 DO YOU USE OR REFER TO 2ND HARMONIC DISTORTION	50	50	3	21	0	0	1	0	0	0
K 659	KI-22 DO YOU USE OR REFER TO BANDPASS DISTORTION	50	50	5	29	0	0	1	0	0	0
K 660	KI-23 DO YOU USE OR REFER TO SQUARE LAW DISTORTION	38	38	2	12	0	0	1	0	0	0
K 661	KI-24 DO YOU USE OR REFER TO CO-CHANNEL INTERFERENCE	13	13	5	13	0	0	1	0	0	0
K 662	KI-25 DO YOU USE OR REFER TO IMAGE FREQUENCIES IN RECEIVERS	38	38	3	13	0	0	1	0	0	0
K 663	KI-26 DO YOU USE OR REFER TO SIGNAL TO IMAGE RATIOS OR IMAGE REJECTION RATIOS	38	38	5	19	0	0	1	0	0	0
K 664	KI-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM TRANSMITTER SCHEMATIC DIAGRAMS	75	75	2	29	0	0	1	0	0	0
K 665	KI-28 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM RECEIVER SCHEMATIC DIAGRAMS	75	75	7	30	0	0	1	0	0	0
K 666	KI-29 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB	38	38	12	30	2	0	1	0	1	0
K 667	KI-30 DO YOU INSPECT FM TRANSMIT OR RECEIVE SYSTEMS	13	13	8	22	2	0	1	0	0	0
K 668	KI-31 DO YOU CLEAN FM TRANSMIT OR RECEIVE SYSTEMS	13	13	2	26	2	0	1	0	0	0
K 669	KI-32 DO YOU ALIGN FM TRANSMIT OR RECEIVE SYSTEMS	13	13	10	27	2	0	1	0	0	0
K 670	KI-33 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE SYSTEMS	25	25	12	27	2	0	1	0	0	0
K 671	KI-34 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE COMPONENTS	25	25	7	26	2	0	1	0	0	0
K 672	KI-35 DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE SYSTEMS	13	13	10	29	2	0	1	0	0	0
K 673	KI-36 DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE COMPONENTS	13	13	5	26	2	0	1	0	0	0
K 674	KI-37 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	13	13	7	27	2	0	1	0	0	0
K 675	KI-38 DO YOU PERFORM TASKS ON FREQUENCY MULTIPLIERS	13	13	5	26	2	0	1	0	0	0

## PCI MEMBERS RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISK		SPC						
	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
	808	809	810	All	824	825	826	827	828
) K 676 K2-11 DO YOU PERFORM TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS)	13	13	5	27	2	0	1	0	0
) K 677 K2-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	25	25	7	26	2	0	1	0	0
) K 678 K2-13 DO YOU PERFORM TASKS ON RF AMPLIFIERS	13	13	8	27	2	0	1	0	0
) K 679 K2-14 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS	25	25	5	27	2	0	1	0	0
) K 680 K2-15 DO YOU PERFORM TASKS ON IF AMPLIFIERS	25	25	8	28	2	0	1	0	0
) K 681 K2-16 DO YOU PERFORM TASKS ON LIMITERS	25	25	5	25	2	0	1	0	0
) K 682 K2-17 DO YOU PERFORM TASKS ON FREQUENCY DISCRIMINATORS	25	25	5	26	2	0	1	0	0
) K 683 K2-18 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS	38	38	8	26	2	0	1	0	0
) K 684 K2-19 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS	38	38	8	26	2	0	1	0	0
) K 685 K3-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL (BASE 8) NUMBERS	75	75	69	13	10	9	3	0	1
) K 686 K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2)	75	75	63	32	38	16	5	0	2
) K 687 K3-03 DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS	75	75	61	13	18	4	8	0	1
) K 688 K3-04 DO YOU CONVERT BINARY NUMBERS TO OCTAL NUMBERS	75	75	56	10	12	4	3	0	1
) K 689 K3-05 DO YOU CONVERT BINARY NUMBERS TO DECIMAL NUMBERS	88	88	63	31	38	12	4	0	2
) K 690 K3-06 DO YOU CONVERT BINARY NUMBERS TO OCTAL NUMBERS	75	75	51	11	19	4	3	0	1
) K 691 K3-07 DO YOU ADD BINARY NUMBERS TO GET A SUM	75	75	42	26	33	12	6	0	3
) K 692 K3-08 DO YOU SUBTRACT BINARY NUMBERS USING THE END-AROUND- CARRY METHOD	63	63	20	15	21	0	3	0	2
) K 693 K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT SUBTRACTION METHOD	63	63	25	19	24	8	4	0	3
) K 694 K3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM L 695 LI-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO LOGIC FUNCTIONS	63	63	39	9	12	4	5	0	1
) L 696 LI-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	63	63	10	23	45	8	2	0	1
) L 697 LI-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	63	63	10	23	45	8	3	0	1
) L 698 LI-04 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	63	63	10	23	45	8	2	0	1
) L 699 LI-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS OR GATES	63	63	10	22	43	8	2	0	1
) L 700 LI-06 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR LOGIC SYMBOLS OR GATES	75	75	12	36	48	16	3	0	2
) L 701 LI-07 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	75	75	12	35	48	16	3	0	2
) L 702 LI-08 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	75	75	12	35	43	16	3	0	1
) L 703 LI-09 DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS	75	75	12	36	45	16	3	0	1
) L 704 LI-10 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR AND GATES	75	75	18	92	55	28	8	0	2
) L 705 LI-11 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR OR GATES	75	75	18	93	55	28	8	0	2
) L 706 LI-12 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR GATES	75	75	18	93	50	32	8	0	2

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISK	SPC								
		808	809	810	All	828	825	826	827	828
) L 707	L1-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR GATES	75	75	14	40	50	32	4	0	1
) L 708	L2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC CIRCUITS	63	63	5	26	24	24	2	0	1
) L 709	L2-02 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DTCL) CIRCUITS	38	38	5	10	10	4	1	0	0
) L 710	L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	25	25	5	6	10	8	1	0	1
) L 711	L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS	75	75	5	8	18	6	1	0	1
) L 712	L2-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES	25	25	5	26	21	20	2	0	1
) L 713	L2-06 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS	25	25	3	10	12	8	1	0	0
) L 714	L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN ALGEBRA	25	25	5	12	17	8	1	0	1
) L 715	L2-08 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DTCL) CIRCUIT GATES	38	38	7	18	7	4	1	0	0
) L 716	L2-09 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	25	25	7	10	7	9	1	0	0
) L 717	L2-10 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE	63	63	7	26	21	16	1	0	1
) L 718	L2-11 DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS	63	63	7	8	10	6	1	1	1
) L 719	L2-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS	63	63	5	13	12	8	1	0	1
) L 720	L2-13 DO YOU WORK WITH ASYMMETRIC (FREE RUNNING) MULTIVIBRATORS	63	63	6	29	17	12	2	0	0
) L 721	L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS	63	63	8	30	19	16	2	0	1
) L 722	L2-15 DO YOU WORK WITH MONOSTABLE (ONE-SHOT) MULTIVIBRATORS	63	63	8	29	19	16	2	0	0
) L 723	L2-16 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR SYMBOLS	75	75	8	29	21	20	2	0	1
) L 724	L2-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR SYMBOLS	50	50	10	29	21	16	1	0	0
) L 725	L2-18 DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS	75	75	8	29	21	20	1	0	1
) L 726	L2-19 DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES	50	50	7	26	21	16	1	0	1
) L 727	L2-20 DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP LOGIC SYMBOLS	13	13	5	23	21	15	1	0	0
) L 728	L2-21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS	25	25	5	23	21	16	1	0	0
) L 729	L2-22 DO YOU MEASURE OUTPUT WAVESHAPES OF LOGIC CIRCUITS	38	38	5	29	28	16	2	0	0
) L 730	L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS	25	25	5	28	21	16	1	0	0
) L 731	L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS	25	25	5	29	21	16	1	0	0
) L 732	L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC SYMBOLS	25	25	3	15	18	8	1	0	0

## PCT MBRS RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISM	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
) L 733 L3-01 DO YOU WORK WITH DIGITAL COUNTERS IN YOUR PRESENT JOB	63	63	10	58	55	52	6	3	9		
) L 734 L3-02 DO YOU USE OR REFER TO UP-COUNTERS	63	63	12	31	48	40	5	0	3		
) L 735 L3-03 DO YOU USE OR REFER TO DOWN-COUNTERS	63	63	10	28	43	32	9	0	2		
) L 736 L3-04 DO YOU USE OR REFER TO SERIAL COUNTERS	50	50	8	23	40	16	4	1	1		
) L 737 L3-05 DO YOU USE OR REFER TO PARALLEL COUNTERS	50	50	8	22	31	12	3	0	1		
) L 738 L3-06 DO YOU USE OR REFER TO RING COUNTERS	13	13	3	19	17	0	2	0	0		
) L 739 L3-07 DO YOU USE OR REFER TO DECADE COUNTERS	13	13	3	46	28	28	3	0	1		
) L 740 L3-08 DO YOU USE OR REFER TO COUNT DETECT CIRCUITS	25	25	7	26	33	20	3	1	0		
) L 741 L3-09 DO YOU USE OR REFER TO DOWN CLOCKS	38	38	8	26	45	20	3	0	0		
) L 742 L3-10 DO YOU USE OR REFER TO UP CLOCKS	38	38	8	27	45	20	8	0	0		
) L 743 L3-11 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS	25	25	10	36	28	24	2	0	0		
) L 744 L3-12 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS	25	25	8	20	29	8	2	0	0		
) L 745 L3-13 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF DECADE COUNTERS	13	13	5	37	28	12	2	0	0		
) L 746 L3-14 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF RING COUNTERS	0	0	3	17	18	0	2	0	0		
) L 747 L3-15 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTER	38	38	5	19	29	0	2	0	0		
) L 748 L3-16 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	50	50	8	21	29	8	2	0	0		
) L 749 L3-17 DO YOU TRACE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF COUNTERS	50	50	8	22	26	16	3	3	1		
) L 750 L3-18 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR UP-COUNTERS HAVING COMPLEMENTED FLIP-FLOPS	25	25	8	18	24	16	2	0	0		
) L 751 L3-19 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP- OR DOWN-COUNTERS HAVING COMPLEMENTING FLIP-FLOPS	25	25	5	15	17	4	2	0	0		
) L 752 L3-20 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR SERIAL UP-COUNTERS FEEDING A PARALLEL STORAGE REGISTERS	38	38	5	14	17	0	2	0	0		
) L 753 L3-21 DO YOU COMPUTE THE BINARY COUNT AFTER SPECIFIC INPUT PULSES FOR OTHER TYPES OF COUNTERS	50	50	7	18	26	20	2	0	1		
) L 754 L3-22 DO YOU CONSTRUCT TRUTH TABLES FROM LOGIC DIAGRAMS OF DECADE COUNTERS	13	13	3	16	16	0	2	0	0		
) L 755 L3-23 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP IN RING COUNTERS FOR SPECIFIC INPUT PULSES	13	13	3	17	16	0	2	0	0		
) L 756 L3-24 DO YOU DETERMINE THE APPROPRIATE AND GATE NECESSARY IN COUNT DETECT CIRCUITS TO INDICATE A REQUIRED COUNT	38	38	7	26	31	20	2	0	1		
) N 757 M1-01 DO YOU WORK WITH SAWTOOTH WAVE GENERATORS	75	75	59	67	60	29	8	3	0		
) N 758 M1-02 DO YOU WORK WITH TRAPEZOIDAL WAVE GENERATORS	63	63	17	29	21	12	8	1	0		
) N 759 M1-03 DO YOU WORK WITH PULSED OSCILLATORS WITH REGENERATIVE FEEDBACK	63	63	27	57	43	28	6	9	0		
) N 760 M1-04 DO YOU WORK WITH PULSED OSCILLATORS WITHOUT REGENERATIVE FEEDBACK	50	50	22	55	38	16	6	1	0		

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISM	SPC 808	SPC 809	SPC 810	SPC 811	SPC 828	SPC 825	SPC 826	SPC 827	SPC 828
) M 761 M1-05 DO YOU WORK WITH BLOCKING OSCILLATORS	75	75	59	53	38	32	6	1	0	0
) M 762 M1-06 DO YOU USE OR REFER TO RISE TIME	75	75	29	78	62	28	7	1	1	1
) M 763 M1-07 DO YOU USE OR REFER TO FALL OR FLYBACK TIME	75	75	25	71	60	20	7	1	1	1
) M 764 M1-08 DO YOU USE OR REFER TO SWEEP TIME	80	80	69	76	71	90	11	6	0	0
) M 765 M1-09 DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SAMTOOTH	80	80	56	57	67	12	9	3	0	0
) M 766 M1-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAMTOOTH	80	80	56	54	60	12	7	1	1	1
) M 767 M1-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAMTOOTH	75	75	49	58	57	24	7	1	0	0
) M 768 M1-12 DO YOU USE OR REFER TO GATE LENGTH OF SAMTOOTH	60	60	37	54	55	24	5	1	0	0
) M 769 M2-01 DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB	75	75	29	85	33	8	9	1	1	1
) M 770 M2-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL GENERATORS	50	50	29	81	29	8	3	1	2	1
) M 771 M2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS ADJUSTING, ALIGNING, OR CALIBRATING WHILE USING SIGNAL GENERATORS	25	25	17	74	26	4	2	1	1	1
) M 772 M2-04 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY WHILE USING SIGNAL GENERATORS	30	30	22	71	26	4	2	1	1	1
) M 773 M2-05 DO YOU TROUBLESHOOT TO THE SMALLEST REPLACEABLE COMPONENT WHILE USING SIGNAL GENERATORS	13	13	5	71	19	4	1	1	1	1
) M 774 M2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS	50	50	12	85	7	8	2	0	0	0
) M 775 M2-07 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH AS SQUARE WAVE, TRIANGLE, PULSE, OR SPIKE	50	50	12	79	19	0	1	0	0	0
) M 776 M2-08 DO YOU USE RF GENERATORS LESS THAN 1,000 MHZ	50	50	15	80	29	8	1	0	0	0
) M 777 M2-09 DO YOU USE RF GENERATORS GREATER THAN 1,000 MHZ	13	13	17	68	17	0	1	0	0	0
) M 778 M2-10 DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION GENERATORS	25	25	10	71	17	0	3	1	1	1
) M 779 M3-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS OR GENERATORS	50	50	25	37	29	60	77	59	12	5
) M 780 M3-02 DO YOU INSPECT MOTORS	13	13	17	36	31	60	77	59	5	5
) M 781 M3-03 DO YOU CLEAN OR LUBRICATE MOTORS	0	0	7	30	29	60	76	66	3	3
) M 782 M3-04 DO YOU OPERATE MOTORS	25	25	18	35	33	60	78	55	11	11
) M 783 M3-05 DO YOU REMOVE OR REPLACE COMPLETE MOTORS	0	0	17	36	31	60	78	58	3	3
) M 784 M3-06 DO YOU REMOVE OR REPLACE MOTOR PARTS	13	13	20	40	40	62	19	2	2	2
) M 785 M3-07 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS OF MOTORS	13	13	20	35	31	68	76	59	6	6
) M 786 M3-08 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF MOTORS	0	0	7	10	19	20	57	25	1	1
) M 787 M3-09 DO YOU PERFORM ANY TASKS ON FIELD COILS	13	13	7	11	8	26	9	1	1	1
) M 788 M3-10 DO YOU PERFORM ANY TASKS ON ARMATURES	13	13	7	12	5	12	37	13	1	1
) M 789 M3-11 DO YOU PERFORM ANY TASKS ON ROTORS	13	13	7	12	5	12	38	9	1	1
) M 790 M3-12 DO YOU PERFORM ANY TASKS ON BRUSHES	13	13	5	19	5	60	59	22	1	1
) M 791 M3-13 DO YOU PERFORM ANY TASKS ON SLIP RINGS	13	13	7	12	2	60	29	12	1	1
) M 792 M3-14 DO YOU PERFORM ANY TASKS ON COMMUTATORS	13	13	7	12	2	28	30	10	1	1
) M 793 M3-15 DO YOU PERFORM ANY TASKS ON POLE PIECES	13	13	7	10	2	12	23	7	1	1

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISM								
	SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	
) M 794 M3-16 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OF THE FORCE OR TORQUE CREATED BY A MOTOR	25	25	5	5	17	12	13	7	1
) M 795 M3-17 DO YOU DETERMINE OR MEASURE THE DIRECTION OF THE MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR	38	38	5	7	21	24	19	19	1
) M 796 M3-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE IN MOTORS	38	38	5	5	12	26	12	13	1
) M 797 M3-19 DO YOU WORK WITH SYNCHRONOUS MOTORS	25	25	10	22	31	28	27	33	1
) M 798 M3-20 DO YOU WORK WITH INDUCTION MOTORS	38	38	12	19	21	36	35	19	1
) M 799 M3-21 DO YOU WORK WITH SPLIT-PHASE MOTORS	50	50	10	13	19	24	32	12	1
) M 800 M3-22 DO YOU WORK WITH SOME COMBINATION OF THE ABOVE MOTORS	38	38	10	21	24	52	50	38	3
) M 801 M3-23 DO YOU INSPECT GENERATORS	13	13	8	23	19	20	18	3	1
) M 802 M3-24 DO YOU CLEAN OR LUBRICATE GENERATORS	0	0	2	21	14	20	18	3	1
) M 803 M3-25 DO YOU OPERATE GENERATORS	25	25	8	24	21	16	25	8	8
) M 804 M3-26 DO YOU REMOVE OR REPLACE COMPLETE GENERATORS	13	13	5	19	19	20	12	1	0
) M 805 M3-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS	13	13	2	19	7	12	12	1	0
) M 806 M3-28 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS OF GENERATORS	13	13	8	21	14	32	17	3	2
) M 807 M3-29 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF GENERATORS	0	0	2	19	5	12	13	1	0
) N 808 M1-01 DO YOU WORK WITH METERS IN YOUR PRESENT JOB	68	68	71	79	67	72	67	62	55
) N 809 M1-02 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF PERMANENT MAGNETS	63	63	19	46	14	12	14	7	2
) N 810 M1-03 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF MOVING COILS	63	63	15	47	17	12	13	12	3
) N 811 M1-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF SPIRAL SPRINGS	38	38	12	46	10	8	16	9	3
) N 812 M1-05 DO YOU READ METER SCALES	68	68	73	80	79	72	69	74	60
) N 813 M1-06 DO YOU EXTEND THE RANGE OF AMMETERS (EXPRESSED IN UNITS OF OHMS PER VOLT)	75	75	29	53	38	32	18	29	12
) N 814 M1-07 DO YOU ZERO OHMMETERS	88	88	71	79	76	68	70	75	57
) N 815 M1-08 DO YOU ZERO AMMETERS	63	63	32	67	50	32	35	42	16
) N 816 M1-09 DO YOU EXTEND THE RANGE OF VOLTMETERS	75	75	58	95	48	25	41	22	1
) N 817 M1-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY	63	63	46	71	43	28	35	28	22
) N 818 M2-01 DO YOU WORK WITH SATURABLE REACTORS OR MAGNETIC AMPLIFIERS IN YOUR PRESENT JOB	63	63	8	6	5	6	1	0	0
) N 819 M2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	5	5	5	4	1	0	0
) N 820 M2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	5	4	0	4	1	0	0
) N 821 M2-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	5	4	0	0	1	0	0
) N 822 M2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	5	5	5	5	0	1	0
) N 823 M2-06 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	0	0	7	5	5	0	1	0	0
) N 824 M2-07 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIER OR SATURABLE REACTOR COMPONENTS	0	0	3	4	2	0	1	0	0

**TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING**

## PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-TSK	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828
) 0 853 01-09 DO YOU PERFORM TASKS ON SSB AUDIO AMPLIFIERS	0	0	0	5	2	0	1	0	0
) 0 854 01-10 DO YOU PERFORM TASKS ON SSB BALANCED MODULATORS	0	0	0	4	5	0	1	0	0
) 0 855 01-11 DO YOU PERFORM TASKS ON SSB CARRIER OSCILLATORS	0	0	0	5	5	0	1	0	0
) 0 856 01-12 DO YOU PERFORM TASKS ON SSB LC FILTERS	0	0	0	5	7	0	1	0	0
) 0 857 01-13 DO YOU PERFORM TASKS ON SSB CRYSTAL FILTERS	0	0	0	5	5	0	1	0	0
) 0 858 01-14 DO YOU PERFORM TASKS ON SSB MECHANICAL FILTERS	0	0	0	4	2	0	1	0	0
) 0 859 01-15 DO YOU PERFORM TASKS ON SSB OSCILLATORS	0	0	0	5	5	0	1	0	0
) 0 860 01-16 DO YOU PERFORM TASKS ON SSB MIXERS	0	0	0	6	7	0	1	0	0
) 0 861 01-17 DO YOU PERFORM TASKS ON SSB DRIVERS	0	0	0	5	7	0	1	0	0
) 0 862 01-18 DO YOU PERFORM TASKS ON SSB POWER AMPLIFIERS	0	0	0	5	7	0	1	0	0
) 0 863 01-19 DO YOU PERFORM TASKS ON SSB RF AMPLIFIERS	0	0	0	5	7	0	1	0	0
) 0 864 01-20 DO YOU PERFORM TASKS ON SSB FREQUENCY CONVERTERS	0	0	0	5	5	0	1	0	0
) 0 865 01-21 DO YOU PERFORM TASKS ON SSB IF AMPLIFIERS	0	0	0	5	7	0	1	0	0
) 0 866 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS	0	0	0	5	7	0	1	0	0
) 0 867 01-23 DO YOU PERFORM TASKS ON SSB DON'T REMEMBER WHICH SSB	0	0	0	1	2	0	1	0	0
) SYSTEM STAGES									
) 0 868 01-24 DO YOU USE OR REFER TO SELECTIVE FADING	0	0	0	2	0	0	1	0	0
) 0 869 01-25 DO YOU USE OR REFER TO PEAK POWER	0	0	0	5	5	0	1	0	0
) 0 870 01-26 DO YOU USE OR REFER TO FREQUENCY STABILITY	0	0	0	5	5	0	1	0	0
) 0 871 01-27 DO YOU USE OR REFER TO RESPONSE CURVES FOR BANDWIDTH FILTERS	0	0	0	4	5	0	1	0	0
) 0 872 01-28 DO YOU CALCULATE PEAK POWER OR EFFECTIVE POWER OF SSB	0	0	0	3	5	0	1	0	0
) TRANSMITTERS									
) 0 873 01-29 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB TRANSMITTER SCHEMATIC DIAGRAMS	0	0	0	5	7	0	1	0	0
) RECEIVER SCHEMATIC DIAGRAMS									
) 0 874 01-30 DO YOU WORK ON PULSE MODULATION SYSTEMS IN YOUR PRESENT JOB	25	25	25	34	12	4	1	0	0
) 0 875 02-01 DO YOU WORK ON PULSE MODULATION SYSTEMS IN YOUR PRESENT JOB	25	25	25	34	12	4	1	0	0
) 0 876 02-02 DO YOU INSPECT PULSE MODULATION SYSTEMS	13	13	17	33	7	0	1	0	0
) 0 877 02-03 DO YOU CLEAN PULSE MODULATION SYSTEMS	0	0	5	28	5	0	1	0	0
) 0 878 02-04 DO YOU ALIGN PULSE MODULATION SYSTEMS	13	13	22	33	10	8	1	0	0
) 0 879 02-05 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS	13	13	25	33	10	0	1	0	0
) 0 880 02-06 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS	13	13	17	33	5	0	1	0	0
) COMPONENTS									
) 0 881 02-07 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS	13	13	28	28	10	8	1	0	0
) 0 882 02-08 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS	0	0	14	33	5	0	1	0	0
) COMPONENTS									
) 0 883 02-09 DO YOU WORK ON PULSE-AMPLITUDE MODULATION (PAM)	13	13	5	27	7	0	1	0	0
) SYSTEMS									
) 0 884 02-10 DO YOU WORK ON PULSE-DURATION MODULATION (PDM)	0	0	5	22	7	0	1	0	0
) SYSTEMS									
) 0 885 02-11 DO YOU WORK ON PULSE-POSITION MODULATION (PPM)	0	0	3	23	2	0	1	0	0
) SYSTEMS									
) 0 886 02-12 DO YOU WORK ON PULSE-CODE MODULATION (PCM) SYSTEMS	0	0	2	19	2	0	1	0	0
) 0 887 02-13 DO YOU WORK ON LINE PULSING MODULATION SYSTEMS	0	0	2	13	5	0	1	0	0
) 0 888 02-14 DO YOU WORK ON DON'T REMEMBER WHICH TYPE OF MODULATION SYSTEM	13	13	16	8	2	0	2	0	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DVS-TSK	SPC								
	808	809	810	All	82A	825	826	822	828
) 0 889 02-15 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER SUPPLIES	13	13	17	28	10	0	1	0	0
) 0 890 02-16 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM CHARGING CHOKES AND CHARGING DIODES	0	0	5	18	10	0	1	0	0
) 0 891 02-17 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE FORMING NETWORKS	13	13	19	30	10	6	1	0	0
) 0 892 02-18 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TIMERS	13	13	10	25	10	0	2	0	0
) 0 893 02-19 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM SWITCHES SUCH AS GAS THYRATRONS	13	13	15	18	7	0	1	0	0
) 0 894 02-20 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM PULSE TRANSFORMERS	13	13	17	22	10	0	1	0	0
) 0 895 02-21 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM TRANSMITTER TUBES	13	13	17	29	2	0	1	0	0
) 0 896 02-22 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RF AMPLIFIERS	13	13	22	31	7	0	1	0	0
) 0 897 02-23 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM FREQUENCY CONVERTERS	13	13	19	30	10	0	1	0	0
) 0 898 02-24 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM IF AMPLIFIERS	13	13	17	30	7	0	1	0	0
) 0 899 02-25 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DETECTORS	13	13	19	31	12	0	1	0	0
) 0 900 02-26 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM VIDEO AMPLIFIERS	13	13	22	28	7	0	1	0	0
) 0 901 02-27 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM POWER VIDEO AMPLIFIERS	13	13	17	22	7	0	1	0	0
) 0 902 02-28 DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM DON'T REMEMBER WHICH PULSE MODULATION SYSTEM STAGES	13	13	5	5	0	0	1	0	0
) 0 903 02-29 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)	25	25	25	39	12	0	1	0	0
) 0 904 02-30 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRTT)	25	25	15	31	10	9	1	0	0
) 0 905 02-31 DO YOU USE OR REFER TO PULSE WIDTH (PW)	25	25	25	35	12	9	1	0	0
) 0 906 02-32 DO YOU USE OR REFER TO PULSE SHAPE	25	25	24	39	10	0	1	0	0
) 0 907 02-33 DO YOU USE OR REFER TO PEAK POWER	25	25	29	31	10	0	1	0	0
) 0 908 02-34 DO YOU USE OR REFER TO AVERAGE POWER	25	25	17	30	7	0	1	0	0
) 0 909 02-35 DO YOU CALCULATE PULSE RECURRENCE TIME (PRTT) OR PULSE RECURRENCE FREQUENCY (PRF)	25	25	12	26	7	9	1	0	0
) 0 910 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRTT) OR PULSE RECURRENCE FREQUENCY (PRF)	25	25	15	32	10	9	1	0	0
0 911 02-37 DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS	25	25	10	23	7	0	1	0	0
0 912 02-38 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION TRANSMITTER SCHEMATIC DIAGRAMS	25	25	20	28	10	0	1	0	0
0 913 02-39 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS	25	25	25	27	10	0	1	0	0
0 914 03-01 DO YOU WORK WITH ANTENNAS IN YOUR PRESENT JOB	63	63	71	9	17	9	1	0	1
0 915 03-02 DO YOU INSPECT ANTENNAS	25	25	63	9	17	9	1	0	1

## PCI HBRS RESPONDING 'YES' BY DAESC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SK	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828		
) 0 916 03-03 DO YOU CLEAN ANTENNAS	25	25	29	6	12	4	1	0	0	0	0
) 0 917 03-04 DO YOU PHYSICALLY ALIGN ANTENNAS	25	25	71	5	12	0	1	0	0	0	0
) 0 918 03-05 DO YOU ELECTRICALLY ALIGN ANTENNAS	25	25	69	5	12	0	1	0	0	0	0
) 0 919 03-06 DO YOU TROUBLESHOOT TO ANTENNAS	38	38	71	7	17	0	1	0	0	0	0
) 0 920 03-07 DO YOU TROUBLESHOOT TO ANTENNA COMPONENTS	25	25	69	4	12	0	1	0	0	0	0
) 0 921 03-08 DO YOU REMOVE OR INSTALL ANTENNAS	25	25	71	6	17	4	1	0	0	0	0
) 0 922 03-09 DO YOU REMOVE OR REPLACE COMPONENTS OF ANTENNAS	13	13	61	4	18	0	1	0	0	0	0
) 0 923 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF E OR ELECTRIC FIELD LINES	38	38	14	3	2	0	1	0	0	0	0
) 0 924 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF H OR MAGNETIC FIELD LINES	38	38	12	2	0	0	1	0	0	0	0
) 0 925 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS	38	38	8	2	0	0	1	0	0	0	0
) 0 926 03-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS INDUCTIVE LOADS TO THE GENERATOR	38	38	8	3	0	0	1	0	0	0	0
) 0 927 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE LONGER THAN A HALF-WAVE ACT AS INDUCTIVE LOADS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS	50	50	7	3	0	0	1	0	0	0	0
) 0 928 03-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS TO THE GENERATOR	50	50	3	3	0	0	1	0	0	0	0
) 0 929 03-16 DO YOU WORK WITH HERTZ ANTENNAS	38	38	19	3	7	0	1	0	0	0	0
) 0 930 03-17 DO YOU WORK WITH MARCONI ANTENNAS	25	25	3	2	0	1	0	0	0	0	0
) 0 931 03-18 DO YOU WORK WITH BROADSIDE ARRAYS	25	25	2	1	5	0	1	0	0	0	0
) 0 932 03-19 DO YOU WORK WITH END-FIRE ARRAYS	25	25	5	1	0	0	1	0	0	0	0
) 0 933 03-20 DO YOU WORK WITH CARDIOID ARRAYS	25	25	2	1	0	0	1	0	0	0	0
) 0 934 03-21 DO YOU WORK WITH COLLINEAR ARRAYS	38	38	3	1	2	0	1	0	0	0	0
) 0 935 03-22 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS WHEN WORKING WITH ANTENNAS	38	38	5	2	2	0	1	0	0	0	0
) 0 936 03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF ANTENNAS	13	13	5	1	0	0	1	0	0	0	0
) 0 937 03-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS	38	38	7	2	0	0	1	0	0	0	0
) 0 938 03-25 DO YOU MEASURE ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS	0	0	7	1	0	0	1	0	0	0	0
) 0 939 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION	50	50	3	1	0	0	1	0	0	0	0
) 0 940 03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD	38	38	3	1	0	0	1	0	0	0	0
) 0 941 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED	0	0	5	1	5	0	1	0	0	0	0
) 0 942 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY POLARIZED	13	13	3	1	0	0	1	0	0	0	0
) 0 943 03-30 DO YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS YOU WORK ON	13	13	3	1	0	0	1	0	0	0	0
) 0 944 03-31 DO YOU CONSTRUCT OR MAKE THE CALCULATIONS NECESSARY TO CONSTRUCT ANTENNAS OF CORRECT LENGTH FOR SPECIFIC WAVELENGTHS	25	25	3	3	0	0	1	0	0	0	0

TASK - GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	SPC 808	SPC 809	SPC 810	SPC 811	SPC 828	SPC 825	SPC 826	SPC 827	SPC 828
) 0 945 03-32 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS ELEMENTS SERVING AS DIRECTORS	13	13	3	1	2	0	1	0	0
) 0 946 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS ELEMENTS SERVING AS DIRECTORS	13	13	3	1	5	0	1	0	0
) 0 947 03-34 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS ELEMENTS SERVING AS REFLECTORS	13	13	5	1	7	0	1	0	0
) 0 948 03-35 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN DON'T REMEMBER WHAT KIND OF ELEMENTS	13	13	19	3	7	0	1	0	1
) 0 949 03-36 DO YOU WORK ON UNIDIRECTIONAL ANTENNAS	25	25	25	4	5	0	1	0	0
) 0 850 03-37 DO YOU WORK ON BIDIRECTIONAL ANTENNAS	38	38	19	4	5	0	1	0	0
) 0 851 03-38 DO YOU WORK ON DON'T REMEMBER THE DIRECTIONALITY	0	0	19	2	7	4	1	0	1
) 0 852 03-39 DO YOU WORK WITH ROTAT ANTENNA ARRAYS	0	0	19	2	2	0	1	0	0
) P 953 PI-01 IN YOUR PRESENT JOB DO YOU WORK WITH TRANSMISSION LINES (TRANSMISSION LINES ARE DEFINED TO INCLUDE LEADS BETWEEN RECEIVERS AND ANTENNAS. TELEPHONE LEADS, AS WELL AS HIGH VOLTAGE POWER LINES, ETC. DO NOT CONSIDER WAVEGUIDES AS TRANSMISSION LINES.	50	50	19	13	5	0	3	0	0
) P 954 PI-02 DO YOU REFER TO OR USE COPPER LOSS OR IZR LOSS IN TRANSMISSION LINES.	38	38	5	5	0	0	2	0	0
) P 955 PI-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES	38	38	7	6	0	4	1	0	0
) P 956 PI-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION LINES	50	50	8	8	2	0	1	0	0
) P 957 PI-05 DO YOU USE OR REFER TO DIELECTRIC LOSS IN TRANSMISSION LINES	50	50	5	6	0	0	1	0	0
) P 958 PI-06 DO YOU USE OR REFER TO LEAKAGE LOSSES IN TRANSMISSION LINES	50	50	8	9	0	0	1	0	0
) P 959 PI-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES	0	0	7	8	2	4	2	0	0
) P 960 PI-08 DO YOU WORK WITH MAIN LEAD TRANSMISSION LINES	25	25	7	9	2	4	2	0	0
) P 961 PI-09 DO YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES	25	25	7	8	2	0	1	0	0
) P 962 PI-10 DO YOU WORK WITH FLEXIBLE COAXIAL CABLE TRANSMISSION LINES	38	38	19	18	5	6	2	0	0
) P 963 PI-11 DO YOU WORK WITH RIGID COAXIAL CABLE TRANSMISSION LINES	25	25	7	12	0	0	1	0	0
) P 964 PI-12 DO YOU TROUBLESHOOT TRANSMISSION LINES	13	13	15	10	5	2	0	0	0
) P 965 PI-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION (OPEN, SHORTED, CAPACITIVE, INDUCTIVE)	50	50	10	7	2	4	1	0	0
) P 966 PI-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINES TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS	38	38	3	11	5	0	1	0	0
) P 967 PI-15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS	50	50	8	11	5	4	2	0	0
) P 968 PI-16 DO YOU MEASURE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES	25	25	5	12	2	0	1	0	0
) P 969 PI-17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES	25	25	3	10	2	0	1	0	0
) P 970 PI-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - WAVELENGTH MATCHING TRANSFORMERS TO MATCH TRANSMISSION LINES TO LOADS	25	25	3	6	0	0	1	0	0

## PCI WORKS RESPONDING "YES" BY DAESG GROUPS.

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISM	SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
) P 971 PI-19 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING MATCHING TRANSFORMERS	13	13	3	9	0	0	1	0	0	0
) P 972 PI-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING DELTA MATCHING	25	25	3	6	0	0	1	0	0	0
) P 973 PI-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED FOR PARTICULAR JOBS WITHOUT REFERRING TO TECHNICAL DATA	0	0	3	6	2	0	1	0	0	0
) P 974 PI-22 DO YOU USE OR REFER TO THE TERM CHARACTERISTIC IMPEDANCE (Z0) OF TRANSMISSION LINES	50	50	5	10	0	0	1	0	0	0
) P 975 PI-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (Z0) OF TRANSMISSION LINES	25	25	3	6	0	0	1	0	0	0
) P 976 PI-24 DO YOU USE OR REFER TO THE TERM CUTOFF FREQUENCY OF TRANSMISSION LINES	25	25	2	10	0	0	1	0	0	0
) P 977 PI-25 DO YOU USE OR REFER TO THE TERM VELOCITY FACTOR (K) OF TRANSMISSION LINES	25	25	2	6	0	0	1	0	0	0
) P 978 PI-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES	25	25	5	8	0	0	1	0	0	0
) P 979 PI-27 DO YOU CONSTRUCT TRANSMISSION LINES OF PARTICULAR ELECTRICAL LENGTH FOR GIVEN FREQUENCIES	13	13	2	8	0	0	1	0	0	0
) P 980 PI-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT AS THE FREQUENCY INCREASES AND THE PHYSICAL LENGTH OF TRANSMISSION LINES REMAIN CONSTANT, THE ELECTRICAL LENGTH INCREASES	50	50	5	6	2	4	1	0	0	0
) P 981 PI-29 DO YOU WORK WITH NONRESONANT (FLAT) TRANSMISSION LINES	13	13	2	10	2	0	1	0	0	0
) P 982 PI-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES	13	13	5	10	2	0	1	0	0	0
) P 983 PI-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING STUB MATCHING	0	0	5	10	0	0	1	0	0	0
) P 984 PI-32 DO YOU WORK WITH WAVEGUIDES OR CAVITY RESONATORS IN YOUR PRESENT JOB	50	50	75	32	19	0	1	0	1	0
) P 985 PI-32 DO YOU INSPECT WAVEGUIDES OR CAVITY RESONATORS	25	25	68	32	10	0	1	0	1	0
) P 986 PI-33 DO YOU CLEAN WAVEGUIDES OR CAVITY RESONATORS	25	25	36	27	7	0	1	0	0	0
) P 987 PI-34 DO YOU BEND WAVEGUIDES OR CAVITY RESONATORS	13	13	22	9	10	0	1	0	0	0
) P 988 PI-35 DO YOU TWIST WAVEGUIDES OR CAVITY RESONATORS	13	13	14	9	2	0	1	0	0	0
) P 989 PI-36 DO YOU PURGE WAVEGUIDES OR CAVITY RESONATORS	25	25	68	5	19	0	1	0	0	0
) P 990 PI-37 DO YOU TROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS	13	13	41	7	7	0	1	0	0	0
) P 991 PI-38 DO YOU REMOVE OR INSTALL COMPLETE WAVEGUIDES	25	25	71	22	12	0	1	0	0	0
) P 992 PI-39 DO YOU REMOVE OR INSTALL WAVEGUIDE SECTION	25	25	69	26	18	0	1	0	0	0
) P 993 PI-40 DO YOU REMOVE OR INSTALL WAVEGUIDE SECTIONS	25	25	68	29	17	0	1	0	0	0
) P 994 PI-41 DO YOU REMOVE OR INSTALL DUMMY LOADS	25	25	68	30	18	0	1	0	0	0
) P 995 PI-42 DO YOU REMOVE OR INSTALL E BENDS	13	13	15	15	5	0	1	0	0	0
) P 996 PI-43 DO YOU REMOVE OR INSTALL H BENDS	13	13	17	16	5	0	1	0	0	0
) P 997 PI-44 DO YOU REMOVE OR INSTALL OTHER BENDS	13	13	31	18	19	0	1	0	0	0
) P 998 PI-45 DO YOU REMOVE OR INSTALL CHOKES JOINTS	0	0	19	11	0	0	1	0	0	0
) P 999 PI-46 DO YOU REMOVE OR INSTALL ROTATING JOINTS	0	0	17	10	0	0	1	0	0	0
) PI000 PI-47 DO YOU REMOVE OR INSTALL DIRECTIONAL COUPLERS	13	13	56	29	5	0	1	0	0	0
) PI001 PI-48 DO YOU REMOVE OR INSTALL BI DIRECTIONAL COUPLERS	0	0	24	25	2	0	1	0	0	0
) PI002 PI-49 DO YOU USE OR REFER TO "A" HALL OF WAVEGUIDES	25	25	10	9	0	0	1	0	0	0

**TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING**

		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
P1003	P2-20 DO YOU USE OR REFER TO "R" WALL OF WAVEGUIDES	25	25	10	9	0	0	1	0	0	0	0
P1004	P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES	25	25	10	23	2	0	1	0	0	0	0
P1005	P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF WAVEGUIDES	25	25	8	13	0	0	1	0	0	0	0
P1006	P2-23 DO YOU USE OR REFER TO POWER-DETERMINING WALL OF WAVEGUIDES	25	25	8	9	0	0	1	0	0	0	0
P1007	P2-24 DO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY CONDITIONS	38	38	3	7	0	0	1	0	0	0	0
P1008	P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY CONDITIONS	38	38	3	6	0	0	1	0	0	0	0
P1009	P2-26 DO YOU USE OR REFER TO DUPLEXER FIELD BOUNDARY CONDITIONS	25	25	3	6	0	0	1	0	0	0	0
P1010	P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF .7 WAVELENGTHS OF THE OPERATING FREQUENCY	13	13	5	6	2	0	1	0	0	0	0
P1011	P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST "A" WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH .35 USED AS AN AVERAGE	13	13	2	6	0	0	1	0	0	0	0
P1012	P2-29 ARE YOU CONCERNED WITH THE MATERIAL (SUCH AS BRASS) WHICH WAVEGUIDES ARE MADE OF	13	13	0	6	2	0	1	0	0	0	0
P1013	P2-30 DO YOU COMPUTE THE LENGTH OF A WAVEGUIDE FOR SPECIFIC INSTALLATION	0	0	2	6	0	0	1	0	0	0	0
P1014	P2-31 DO YOU USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR DIRECTION OF "H" FIELD IN WAVEGUIDES	38	38	3	6	0	0	1	0	0	0	0
P1015	P2-32 DO YOU USE OR REFER TO THE TIME PHASE OF PEAK "E" OR "H" LINES IN WAVEGUIDES	13	13	3	5	2	0	1	0	0	0	0
P1016	P2-33 DO YOU MEASURE THE TIME PHASE OF "E" OR "H" LINES IN WAVEGUIDES	13	13	2	4	0	0	1	0	0	0	0
P1017	P2-34 DO YOU USE OR REFER TO THE SPACE QUADRATURE OF "E" OR "H" LINES IN WAVEGUIDES	25	25	0	4	0	0	1	0	0	0	0
P1018	P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	25	25	17	12	7	0	1	0	0	0	0
P1019	P2-36 ARE LOW POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	13	13	10	17	7	0	1	0	0	0	0
P1020	P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	13	13	7	19	0	0	1	0	0	0	0
P1021	P2-38 ARE APERTURES (WINDOWS OR IRISSES) USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	25	25	7	12	2	0	1	0	0	0	0
P1022	P2-39 ARE YOU DON'T REMEMBER THE KIND OF ENERGY COUPLING USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	13	13	31	9	7	0	1	0	0	0	0
P1023	P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	0	0	2	5	0	0	1	0	0	0	0
P1024	P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	0	0	0	5	0	0	1	0	0	0	0

## PCI WORKS RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY

AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-ISM							
	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
P1025 P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO TECHNICAL DATA	0	0	0	4	0	0	1	0
P1026 P2-43 ARE CHORE JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS. YOU WORK WITH	0	0	5	8	0	0	1	0
P1027 P2-44 ARE ROTATING JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS. YOU WORK WITH	0	0	27	5	2	0	1	0
P1028 P2-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS. YOU WORK WITH	25	25	29	12	10	0	1	0
P1029 P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING	0	0	16	0	0	1	0	0
P1030 P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING	0	0	5	15	5	0	1	0
P1031 P2-48 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING	0	0	10	12	2	0	1	0
P1032 P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER THE METHOD OF TUNING	13	13	20	8	2	0	1	0
P1033 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY RESONATORS	13	13	31	28	5	0	1	0
P1034 P3-01 IN YOUR PRESENT JOB DO YOU WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR MAGNETRONS	38	38	58	31	10	0	1	0
P1035 P3-02 DO YOU USE OR REFER TO INTERELECTRODE CAPACITANCE	25	25	5	15	2	0	1	0
P1036 P3-03 DO YOU USE OR REFER TO ELECTRON TRANSIT TIME	25	0	5	12	2	0	1	0
P1037 P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE	0	0	2	18	2	0	1	0
P1038 P3-05 DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY	25	25	17	22	2	0	1	0
P1039 P3-06 DO YOU USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION	13	13	5	17	0	0	1	0
P1040 P3-07 DO YOU USE OR REFER TO ELECTRON BUNCHING	13	13	3	17	0	0	1	0
P1041 P3-08 DO YOU WORK WITH TWO-CAVITY KLYSTRONS	25	25	7	16	0	0	1	0
P1042 P3-09 DO YOU WORK WITH THREE-CAVITY KLYSTRONS	25	25	0	10	2	0	1	0
P1043 P3-10 DO YOU WORK WITH REFLEX KLYSTRONS	25	25	10	28	5	0	1	0
P1044 P3-11 DO YOU WORK WITH TRAVELING-WAVE TUBES (TWT)	25	25	5	20	10	0	1	0
P1045 P3-12 DO YOU WORK WITH NONDEGENERATIVE PARAMETRIC AMPLIFIERS	0	0	8	9	5	0	1	0
P1046 P3-13 DO YOU WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS	13	13	18	3	2	0	1	0
P1047 P3-14 DO YOU WORK WITH MAGNETRONS	38	38	49	10	2	0	1	0
P1048 P3-15 DO YOU INSPECT KLYSTRONS OR TWT	25	25	7	27	10	0	1	0
P1049 P3-16 DO YOU CLEAN KLYSTRONS OR TWT	13	13	2	20	10	0	1	0
P1050 P3-17 DO YOU TUNE KLYSTRONS OR TWT ELECTRICALLY	25	25	7	26	2	0	1	0
P1051 P3-18 DO YOU TUNE KLYSTRONS OR TWT MECHANICALLY	25	25	2	25	2	0	1	0
P1052 P3-19 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TWT	25	25	18	28	10	0	1	0
P1053 P3-20 DO YOU TROUBLESHOOT KLYSTRONS OR TWT	25	25	10	26	5	0	1	0
P1054 P3-21 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRON OR TWT	25	25	10	28	10	0	1	0
P1055 P3-22 DO YOU REMOVE OR REPLACE KLYSTRON OR TWT COMPONENTS	13	13	8	17	2	0	1	0
P1056 P3-23 DO YOU INSPECT PARAMETRIC AMPLIFIERS	13	13	12	6	2	0	1	0
P1057 P3-24 DO YOU CLEAN PARAMETRIC AMPLIFIERS	0	0	3	5	2	0	1	0
P1058 P3-25 DO YOU ADJUST PARAMETRIC AMPLIFIERS	13	13	6	2	0	1	0	0

## PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SM	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	808	809	810	811	824	825	826	827	828	
) P1059 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS	13	13	20	6	0	0	1	0	0	
) P1060 P3-27 DO YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC AMPLIFIERS	13	13	29	6	0	0	1	0	0	
) P1061 P3-28 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS	13	13	22	5	2	0	1	0	0	
) P1062 P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC AMPLIFIER	13	13	29	5	2	0	1	0	0	
) P1063 P3-30 DO YOU REMOVE OR REPLACE PARAMETRIC AMPLIFIER COMPONENTS	13	13	3	5	2	0	1	0	0	
) P1064 P3-31 DO YOU INSPECT MAGNETRONS	25	25	49	8	2	0	1	0	0	
) P1065 P3-32 DO YOU CLEAN MAGNETRONS	13	13	19	6	2	0	1	0	0	
) P1066 P3-33 DO YOU ADJUST MAGNETRONS	25	25	25	7	2	0	1	0	0	
) P1067 P3-34 DO YOU TUNE MAGNETRONS	25	25	27	8	2	0	1	0	0	
) P1068 P3-35 DO YOU PERFORM OPERATIONAL CHECKS OF MAGNETRONS	25	25	53	8	2	0	1	0	0	
) P1069 P3-36 DO YOU TROUBLESHOOT MAGNETRONS	25	25	97	7	2	0	1	0	0	
) P1070 P3-37 DO YOU REMOVE OR REPLACE COMPLETE MAGNETRON	25	25	49	8	2	0	1	0	0	
) P1071 P3-38 DO YOU REMOVE OR REPLACE MAGNETRON COMPONENTS	25	25	15	8	2	0	1	0	0	
) P1072 P3-39 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS COLLECTOR PLATES	25	25	3	15	0	0	1	0	0	
) P1073 P3-40 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATCHER CAVITIES	13	13	2	13	0	0	1	0	0	
) P1074 P3-41 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATCHER GRIDS	13	13	2	14	0	0	1	0	0	
) P1075 P3-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS FEEDBACK LOOPS	13	13	3	17	0	0	1	0	0	
) P1076 P3-43 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS DRIFT SPACES	0	0	2	10	0	0	1	0	0	
) P1077 P3-44 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS BUNCHER GRIDS	0	0	2	12	0	0	1	0	0	
) P1078 P3-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS BUNCHER CAVITIES	0	0	2	12	0	0	1	0	0	
) P1079 P3-46 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CONTROL GRIDS	13	13	2	15	0	0	1	0	0	
) P1080 P3-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATHODES	13	13	3	16	0	0	1	0	0	
) P1081 P3-48 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTROn REPELLER (REFLECTOR) PLATES	13	13	3	25	0	0	1	0	0	
) P1082 P3-49 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTROn MAGNETIC COUPLING LOOPS	13	13	3	24	2	0	1	0	0	
) P1083 P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTROn GRID CAVITY GAPS	13	13	2	20	0	0	1	0	0	
) P1084 P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTROn RESONANT CAVITIES	25	25	5	24	5	0	1	0	0	
) P1085 P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTROn MAGNETIC COUPLING LOOPS	25	25	2	16	2	0	1	0	0	
) P1086 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTROn FILAMENTs	13	13	3	23	5	0	1	0	0	
) P1087 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTROn CATHODEs	25	25	3	23	2	0	1	0	0	

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DVT-SK	SPC							
	808	809	810	811	824	825	826	827
P1088 P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON OUTPUT LEADS	13	13	3	24	2	0	1	0
P1089 P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES FILAMENT	0	0	5	17	2	0	1	0
P1090 P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES CATHODES	13	13	5	17	2	0	1	0
P1091 P3-58 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MODULATOR GRIDS	13	13	3	16	2	0	1	0
P1092 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ANODES	13	13	5	18	2	0	1	0
P1093 P3-60 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES HELIXES	13	13	5	17	5	0	0	0
P1094 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES COLLECTORS	13	13	5	16	0	0	1	0
P1095 P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MAGNETS	0	0	3	13	0	0	1	0
P1096 P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ATTENATORS	13	13	10	17	5	0	1	0
P1097 P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE CIRCULATORS	13	13	7	3	0	0	1	0
P1098 P3-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL CAVITIES	13	13	5	4	0	0	1	0
P1099 P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER ISOLATOR CAVITIES	0	0	2	3	0	0	1	0
P1100 P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DIODES	0	0	2	6	0	0	1	0
P1101 P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE ISOLATORS	13	13	3	0	0	0	1	0
P1102 P3-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE- BIAS BATTERIES	0	0	2	4	0	0	1	0
P1103 P3-70 DO YOU PERFORM TASKS ON ANODES	13	13	2	5	0	0	1	0
P1104 P3-71 DO YOU PERFORM TASKS ON ANODE COOLING PIHS	0	0	0	4	0	0	1	0
P1105 P3-72 DO YOU PERFORM TASKS ON COUPLING LOOPS	0	0	2	6	0	0	1	0
P1106 P3-73 DO YOU PERFORM TASKS ON HEATER LEADS	13	13	0	6	0	0	1	0
P1107 P3-74 DO YOU PERFORM TASKS ON RESONANT CAVITIES	0	0	5	6	2	0	1	0
P1108 P3-75 DO YOU PERFORM TASKS ON CATHODES	13	13	3	6	2	0	1	0
P1109 P3-76 DO YOU PERFORM TASKS ON MAGNETS	0	0	3	5	0	0	1	0
Q110 Q1-01 DO YOU USE OR REFER TO STORAGE REGISTERS	63	63	12	17	26	9	3	0
Q111 Q1-02 DO YOU USE OR REFER TO SHIFT REGISTERS	63	63	10	17	31	4	1	1
Q112 Q1-03 DO YOU USE OR REFER TO LOGIC SYMBOLS OF SHIFT REGISTERS	50	50	8	15	29	0	1	0
Q113 Q1-04 DO YOU USE OR REFER TO LOGIC SYMBOLS OF STORAGE REGISTERS	50	50	8	15	29	0	2	0
Q114 Q1-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	50	50	8	16	29	0	1	0
Q115 Q1-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF REGISTERS	38	38	8	15	29	0	1	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-1SK								
	SPC 808	SPC 809	SPC 810	SPC 811	SPC 820	SPC 825	SPC 826		
) 01116 01-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES HAVE PASSED	38	38	12	15	36	8	1	0	0
) 01117 02-01 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR STORAGE DEVICES IN YOUR PRESENT JOB	50	50	44	39	33	16	2	9	2
) 01118 02-02 DO YOU USE OR REFER TO DELAY LINES	50	50	22	28	17	0	1	1	0
) 01119 02-03 DO YOU USE OR REFER TO MAGNETIC CORES	38	38	15	10	5	0	1	3	0
) 01120 02-04 DO YOU USE OR REFER TO MAGNETIC DRUMS	50	50	46	9	2	0	1	1	0
) 01121 02-05 DO YOU USE OR REFER TO MAGNETIC TAPES	50	50	28	5	7	0	2	1	1
) 01122 02-06 DO YOU USE OR REFER TO ACCESS TIME OR SPEED OR MEMORY SYSTEMS	50	50	20	9	12	0	2	3	0
) 01123 02-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY SYSTEMS	50	50	36	7	5	0	1	0	0
) 01124 02-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS	38	38	8	5	5	0	1	0	0
) 01125 02-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY LINES	50	50	18	12	17	0	1	0	0
) 01126 03-01 IN YOUR PRESENT JOB, DO YOU WORK WITH DIGITAL-TO-ANALOG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D) CONVERTERS, OR BINARY-TO-DECIMAL READOUT CONVERTERS	38	38	24	24	36	8	1	0	0
) 01127 03-02 DO YOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS FOR GIVEN INPUT VOLTAGES	25	25	15	10	26	8	1	0	0
) 01128 03-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS IS DETERMINED BY ADDING THE DENOMINATORS OF THE RESISTORS	25	25	7	8	19	4	1	0	0
) 01129 03-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY COUNTS IN ELECTRONIC DIGITAL-TO-ANALOG (D/A) CONVERTERS	38	38	12	12	29	8	1	0	0
) 01130 03-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	0	0	5	15	17	0	1	0	0
) 01131 03-06 DO YOU PERFORM HOLD FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	0	0	5	15	19	0	1	0	0
) 01132 03-07 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	0	0	5	18	19	0	1	0	0
) 01133 03-08 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	13	13	7	18	19	0	1	0	0
) 01134 03-09 DO YOU PERFORM DON'T REMEMBER WHICH FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	25	25	8	6	10	0	1	0	0
) 01135 03-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D CONVERTERS	13	13	7	16	17	0	1	0	0
) 01136 03-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D CONVERTERS	13	13	7	15	19	0	1	0	0
) 01137 03-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D CONVERTERS	13	13	8	15	19	0	1	0	0
) 01138 03-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D CONVERTERS	38	38	8	16	17	0	1	0	0
) 01139 03-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO-DIGITAL (A/D) CONVERTERS	13	13	7	10	5	0	1	0	0

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DI-TSK	SPC 608	SPC 609	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
) R140 RI-01 DO YOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR PRESENT JOB	50	50	12	30	0	0	1	0	0	0
) R141 R2-01 IN YOUR PRESENT JOB DO YOU WORK WITH SCHMITT TRIGGER CIRCUITS	75	75	8	57	31	16	5	1	0	0
) R142 R2-02 DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER SCHEMATIC DIAGRAMS	75	75	7	51	33	16	3	1	0	0
) R143 R2-03 DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS	50	50	7	40	31	12	3	0	0	0
) R144 R3-01 IN YOUR PRESENT JOB DO YOU FABRICATE MULTICONDUCTOR CABLES	13	13	24	40	48	28	8	19	3	0
) R145 R3-02 DO YOU FABRICATE COAXIAL CABLES	50	50	49	51	57	16	9	10	2	0
) S146 S1-01 IN YOUR PRESENT JOB DO YOU PERFORM ANY TASKS ON VISUAL READOUT SYSTEMS	25	25	49	60	45	16	10	10	7	0
) S147 S1-02 DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE LIGHT DECODER SYSTEMS	0	0	14	59	19	0	2	1	1	0
) S148 S1-03 DO YOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING BOOLEAN ALGEBRA	0	0	7	17	7	4	2	0	0	0
) S149 S2-01 DO YOU WORK WITH PHOTO TUBES IN YOUR PRESENT JOB	50	50	3	29	26	16	55	9	0	0
) S150 S3-01 IN YOUR PRESENT JOB DO YOU WORK WITH CHOPPER CIRCUITS	63	63	28	61	19	28	6	1	0	0
) S151 S3-02 DO YOU MEASURE EXCITATION FREQUENCIES	50	50	12	20	12	12	1	0	0	0
) S152 S3-03 DO YOU MEASURE VOLTAGE-CURRENT PHASE RELATIONSHIPS	25	25	12	14	10	16	3	0	0	0
) S153 S3-04 DO YOU USE OR REFER TO EXCITATION FREQUENCIES	38	38	12	19	10	12	2	0	0	0
) S154 S3-05 DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIPS	38	38	10	14	10	4	4	0	0	0
) S155 S3-06 DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	50	50	17	20	19	26	4	1	0	0
) S156 S3-07 DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	38	38	22	25	21	12	3	3	0	0
) S157 S3-08 DO YOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	63	63	22	23	24	20	2	3	0	0
) S158 S3-09 DO YOU USE COMPARISON CIRCUITS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	63	63	17	26	19	16	2	1	0	0
) T1159 T1-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH INFRARED SYSTEMS	38	38	76	2	43	24	2	0	2	0
) T1160 T1-02 DO YOU INSPECT INFRARED SYSTEMS	13	13	69	1	38	12	1	0	1	0
) T1161 T1-03 DO YOU CLEAN INFRARED SYSTEMS	13	13	61	1	38	12	1	0	0	0
) T1162 T1-04 DO YOU ADJUST OR CALIBRATE INFRARED SYSTEMS	13	13	71	90	9	1	0	0	0	0
) T1163 T1-05 DO YOU OPERATE INFRARED SYSTEMS	13	13	78	1	38	8	2	0	0	0
) T1164 T1-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF INFRARED SYSTEMS	13	13	76	1	38	12	1	0	1	0
) T1165 T1-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED SYSTEMS	13	13	75	1	38	8	1	0	0	0
) T1166 T1-08 DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM COMPONENT PARTS	13	13	59	1	38	0	1	0	0	0
) T1167 T1-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF INFRARED SYSTEMS	13	13	78	1	38	12	1	0	1	0
) T1168 T1-10 DO YOU REMOVE OR REPLACE INFRARED SYSTEM COMPONENT PARTS	13	13	67	1	36	0	1	0	0	0

**TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING**

## PCT MBR'S RESPONDING 'YES' BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMANDTASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

	DY-TSM	SPC 808	SPC 809	SPC 810	SPC 811	SPC 824	SPC 825	SPC 826	SPC 827	SPC 828
) T1210 12-25 DO YOU WORK WITH HALF SILVERED (92% REFLECTIVE) MIRRORS	13	13	0	0	38	0	2	1	0	0
) T1211 12-26 DO YOU WORK WITH HELICAL FLASH TUBES	13	13	0	0	36	0	1	0	0	0
) T1212 12-27 DO YOU WORK WITH RUBY	13	13	0	0	43	0	1	0	0	0
) T1213 12-28 DO YOU WORK WITH HELIUM-NEON	0	0	0	0	29	0	1	0	0	0
) T1214 12-29 DO YOU WORK WITH HELIUM-XENON	0	0	0	0	17	0	1	0	0	0
) T1215 12-30 DO YOU WORK WITH XENON	0	0	0	0	19	0	1	0	0	0
) T1216 12-31 DO YOU WORK WITH CESIUM-HELUM	0	0	0	0	10	0	1	0	0	0
) T1217 12-32 DO YOU WORK WITH ARGON	0	0	0	0	12	0	1	0	0	0
) T1218 12-33 DO YOU WORK WITH NEONIUM IN GLASS	0	0	0	0	18	0	1	0	0	0
) T1219 12-34 DO YOU WORK WITH GALLIUM ARSENIDE	0	0	0	0	19	0	1	0	0	0
) T1220 13-01 IN YOUR PRESENT JOB DO YOU WORK WITH DISPLAY TUBES, SUCH AS DIRECT VIEW STORAGE (DVST) OR MULTIPLEX MODE STORAGE TUBES (MMST)	63	63	69	13	7	8	1	0	0	0
) T1221 13-02 DO YOU INSPECT DVST OR MMST	25	25	51	10	7	8	1	0	0	0
) T1222 13-03 DO YOU CLEAN DVST OR MMST	13	13	8	7	8	1	0	0	0	0
) T1223 13-04 DO YOU ADJUST OR CALIBRATE DVST OR MMST	13	13	61	8	5	4	1	0	0	0
) T1224 13-05 DO YOU OPERATE SYSTEMS THAT CONTAIN DVST OR MMST	38	38	66	11	7	8	1	0	0	0
) T1225 13-06 DO YOU TROUBLESHOOT DVST OR MMST	25	25	56	10	5	8	1	0	0	0
) T1226 13-07 DO YOU REMOVE OR REPLACE DVST OR MMST TUBES FROM CIRCUITS	25	25	20	10	5	8	1	0	0	0
) T1227 13-08 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME MAJOR ASSEMBLIES OR UNITS	50	50	3	5	2	0	1	0	0	0
) T1228 13-09 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF MMST	50	50	42	4	2	0	1	0	0	0
) T1229 13-10 DO YOU PERFORM TASKS ON FLOOD GUNS	25	25	37	7	0	0	1	0	0	0
) T1230 13-11 DO YOU PERFORM TASKS ON WRITE GUNS	25	25	29	7	0	0	1	0	0	0
) T1231 13-12 DO YOU PERFORM TASKS ON ATTACK GUNS	25	25	62	8	0	0	1	0	0	0
) T1232 13-13 DO YOU PERFORM TASKS ON ERASE GUNS	25	25	62	7	0	0	1	0	0	0
) T1233 13-14 DO YOU PERFORM TASKS ON STORAGE GRIDS	25	25	37	8	0	0	1	0	0	0
) T1234 14-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY PROGRAMMING TASKS	25	25	17	8	5	4	2	0	2	0
) U1235 14-02 DO YOU USE OR REFER TO DECIMAL SYSTEMS	25	25	18	4	2	0	1	0	1	0
) U1236 14-03 DO YOU USE OR REFER TO PROGRAMS	25	25	18	3	5	0	2	0	2	0
) U1237 14-04 DO YOU USE OR REFER TO BINARY DECIMAL SYSTEMS	13	13	3	1	5	0	1	0	0	0
) U1238 14-05 DO YOU USE OR REFER TO B-4-2-1 SYSTEMS	25	25	10	3	0	0	1	0	0	0
) U1239 14-06 DO YOU USE OR REFER TO FOUR SYSTEMS	0	0	0	1	0	0	1	0	0	0
) U1240 14-07 DO YOU USE OR REFER TO BINARY SYSTEMS	25	25	19	8	2	4	1	0	0	0
) U1241 14-08 DO YOU USE OR REFER TO TIME-SHARING	25	25	18	2	0	0	1	0	0	0
) U1242 14-09 DO YOU USE OR REFER TO DATA WORDS	25	25	18	2	5	0	2	0	1	0
) U1243 14-10 DO YOU USE OR REFER TO ADDRESS WORDS	25	25	19	3	5	0	2	0	0	0
) U1244 14-11 DO YOU USE OR REFER TO ADDRESS/SUBADDRESS	25	25	8	2	0	0	2	0	0	0
) U1245 14-12 DO YOU USE OR REFER TO STEERING/INFORMATION WORDS	25	25	15	2	5	0	1	0	0	0
) U1246 14-13 DO YOU USE OR REFER TO INFORMATION WORDS	25	25	12	2	2	0	1	0	1	0
) U1247 14-14 DO YOU PERFORM TASKS ON SINGLE LEVEL PROGRAMMING	0	0	2	3	2	0	2	0	1	0
) U1248 14-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING	0	0	2	2	0	0	1	0	1	0

AD-A050 612

AIR FORCE OCCUPATIONAL MEASUREMENT CENTER LACKLAND A--ETC F/G 5/9  
SUMMARY REPORT FOR AFSCS TRAINED AT LOWRY AFB. (U)

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PCI MEMBERS RESPONDING "YES" BY DAFSC GROUPS

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AF HUMAN RESOURCES LABORATORY  
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY  
PERCENT MEMBERS PERFORMING

DY-ISM	SPC		SPC		SPC		SPC		SPC		SPC	
	800	809	810	811	820	825	826	827	828	829	830	831
U1259 UI-16 DO YOU PERFORM TASKS ON INPUT DEVICES	25	25	18	3	0	8	1	0	1	0	1	1
U1250 UI-17 DO YOU PERFORM TASKS ON STORAGE DEVICES	25	25	12	3	2	6	1	0	1	0	0	0
U1251 UI-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS	25	25	12	3	0	0	1	0	0	0	0	0
U1252 UI-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS	13	13	18	3	0	6	2	0	0	0	0	0
U1253 UI-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES	13	13	15	2	2	4	2	0	1	0	0	0
U1254 UI-21 DO YOU PERFORM TASKS ON POWER SUPPLIES	13	13	17	2	2	6	3	0	0	0	0	0
U1255 U2-01 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND ATTENUATION	63	63	56	78	26	12	3	0	1	0	0	0
U1256 U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN DECIBELS	50	50	5	92	7	9	2	0	0	0	0	0
U1257 U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN DECIBELS	50	50	5	91	7	0	2	0	0	0	0	0
U1258 U2-04 DUMMY TASK TO IDENTIFY INCUMENTS WHO PERFORMED NO TASKS	0	0	0	100	0	0	26	3	0	0	0	0